620 Series IP Phone

User Manual

(firmware:V2.2.6.2-2733)

ULTRATIVE HK CO., LTD

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1. Getting Started

About

620 SERIES IP Phone series is a new generation intellectual desktop terminal. It brings in you a completely new and more efficient work experience in modern offices.

IP Phone series is a fashionable, beautifully shaped and high-tech product. Its excellent speech quality gives you an unprecedentedly comfortable talking and its rich function keys make the operation very convenient. One key dial can be easily achieved with proper settings. 4.3", high resolution LCD displayer provides you a friendly user interface. Benefit from which, more detail information can be displayed. With the help of the integrated browser, users can access any XML based information, and extend more commercials.

620 SERIES IP Phone series support multi account registering and multi call management. Call Waiting, Call Queuing and Call Forward can be well implemented; meanwhile, it makes conference to be created very quickly. No matter how busy the calls will be, IP Phone can easily satisfy the requirement.

620 SERIES IP Phone series supports 6 extend modules that totally contain 192 programming buttons. With the Busy Lamp Field function, operators can manage and monitor the calls more efficiently. It provides headset jack that compatible with professional microphone headsets, which will finely satisfy the call centre.

Illustrate

Firstly, before you use this user manual, please check the below illustrate carefully. This user manual is common use in WS620, 620P, 620PG. please check the different.

WS 620 is wifi phone, it has wifi module, it is the different from UTT-620,but the function is the same . WS620E IP Phone supports 6 extend modules that totally contain 192 programming buttons.

620P series is Dual Model IP phone, DS6X2 IP phone supports multiple lines for registration, and support PSTN and VOIP, DS6X2 IP phone also supports 6 expansion modules with 192 programmable button

620PG has a Gbps network port. It is a supper rate phone .

Features

- 4.3"480x272 Pixels HD LCD
- Customizable Screen
- HD Voice: HD Codec
- Advanced Call capability:

8 VoIP Line/programmable buttons (dual-colors LED) and support BLF in programmable buttons.

- Expansion Module:

  Up to 6 EMS32 expansion modules and 192 programmable buttons, BLF supported
- Extensible Markup Language(XML)
- Support PoE and AC power adapter

Technical Parameters

Item	620 SERIES
Screen	High-definition color LCD with Background light
	480*272 pixel, 4.3 inch.
Line	8 Light status: Coming call (Red flashing) Hold(Green flashing);Talking (Green)
Language	Multi-Language(e.g.CN/EN/Spain/Portugal/Poland/Turkey/French/Italy etc.)
Function Keys	4 soft keys, 8 Line keys
	6 Navigation keys(Arrow button, OK button, C button)
	Volume adjust, Hands-free, Mute, Headset, Message, Menu
	Directory, Service, Hold, Redial, Conference, Transfer
VoIP Protocol	SIP 2.0
Network Protocol	HTTP, BOOTP, FTP, TFTP, IEEE 802.1Q, *IEEE 802.1X
Codec	G.723.1(5.3Kb/s,6.4Kb/s), G.729 A/B(8Kb/s), G.711 A/U, G.722(64Kb/s)
QoS	TOS, Jiffer Buffer, VAD, CNG, G.168 (32ms)
Network	3×RJ45 10/100M Ethernet Interfaces (LAN/PC/EXT), EXT port just only in E model;
	Tips: 620PG have 2xRJ45 10/1000M10/100M Ethernet Interfaces (LAN/PC)
	IP Assignment: static IP, DHCP, PPPoE
	PC port support Bridge and Router
	DNS SRV,STUN, VPN(L2TP), VLAN/QoS
	STUN,DTMF(In-band/RFC2833/SIP INFO)
Function APP	Always Forward, Busy Forward, No-answer Forward
	Hotline line (Immediately/Delay)
	Call Waiting, Call Queuing
	Call Forward, Call Transfer, Call Holding, Call Pickup, *Callback
	Redial
	Phone directory speed dial, Call record direct dial
	3-way conference
	DnD, Blacklist, SMS
	Voice mail, Voice Prompt, Voice Message
	P2P(Peer-to-Peer)

PBX	Call Transfer, Call Pick-Up, Network-Meeting, DND, Call Waiting, Call Hold.Call Barring, Call Back On Busy, Anonymous Call ,Intercom, Paging
Expansion Interface	EXT: ESM32 programmable key module SOR: FXS, FXO, Record
Application	LDAP(2): search someone in two LDAP server. Enterprise phone directory, download with server, and it support 800 contacts Public phone directory XML Phonebook : Search /Input/ Out put Private phone directory: input/output 300 contacts, every contact can save 3 numbers and the size of number is 19 byte. Call History(600): every records is 200 with Miss Calls /Received Calls/Dialed Calls. Voice Message, Voice Mail Box, Light of Message. Ringing Update, Input, Del, *we also support to order the other APP.
Security	Login the website by password Login the LCD by password Signaling encryption(RC4) Media encryption(RC4) VPN, 802.1X, VLAN QoS(802.1pq), *LLDP AES, ROOT/USER Management
Management	Upgrade: HTTP/TFTP/FTP Auto-provision/TR069 Configurations: Phone/HTTP/Auto-provision/TR069 Debug: Telnet/Phone/Web
Power Supply	Power adapter:AC100~240V input and DC 12V/1A output PoE(IEEE 802.af); USB(Standard DC 5V)
Specifications	Infineon Chipset 42 Buttons, include 8 programmable keys Storage Temperature: 0℃ ~ 60℃ Operating Humidity: 10%~90% Size: 275mm*215mm*90mm Net weight:1.37kg
Certifications	CE, FCC, RoHS, Avaya, Broadsoft, Alcatel, Yeastar, Digium

Note: "*" Sign means function has not been published yet.

2. Connecting Your Phone

Your system administrator will likely connect your new   UTT-620 IP Phone to the corporate IP telephony network. If that is not the case, refer to the graphic and table below to connect your phone.

1) Open the box UTT-620 IP Phone; carefully check the packing list, Packing List as follows:

Item	Counts
IP Phone	1
Handset	1
Handset Cord	1
Power adapter	1
RJ45 cable	1
Quick Reference	1
Product certification	1

2) As shown in figure 2.1 and figure 2.2, Please plug Handset Cord into RJ11 interface(IP Phone and Handset), RJ45 cable into the LAN interface; IP Phone will automatically start if IP Phone with POE function.

3) The phone must work together with power adapter without POE support.

4) Connect your computer to PC interface of the phone with cable.

* More detailed description please refers to the *3.Phone overview-Understanding phone buttons and hardware*.
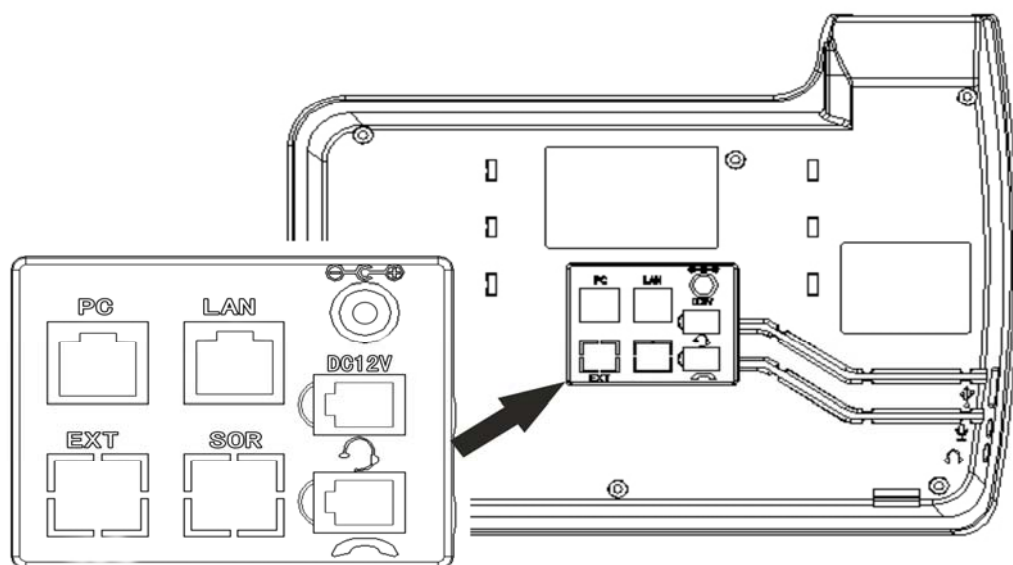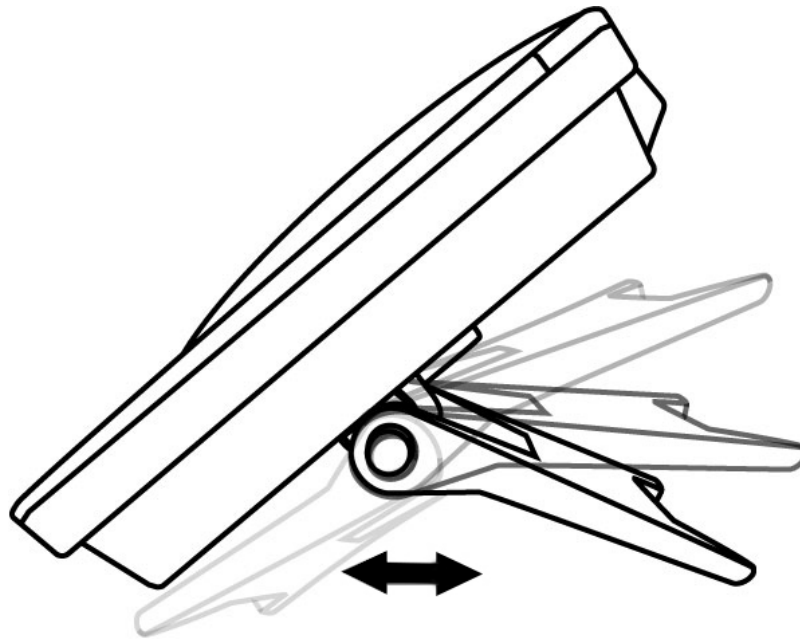
Figure 2.1 Interfaces of   620 Series

Figure 2.2 Footstand of 620 Series

5）If you want to connect an ESM (Expansion module), you could connect it (any interface on the ESM) to the EXT interface on the phone with a RJ-45 cable (a straight-through cable), and the second ESM can be connected to the first one too. It supports 6 ESMs.

DS622 with EXT

3. Phone overview

Understanding Buttons and Hardware

From figure 3.1 to figure 3.2,you can understand buttons and hardware about *620 Series*.

Figure 3.1   620 Series overview

Num	Buttons	Description
1	⟲	Headset button: Toggles the headset on or off Red means the feature is enabled.
2	🎤	Mute button: Toggles the Mute feature on or off. Red means the feature is enabled.
3	✉	Message button: Typically auto-dials your voice message service. Red means have unread voice mail.
4	SERVICE	Service button: Open or Close the Services menu.
5	DIRECTORIES	Directories button: Use it to access call logs and corporate

		directories.
6	MENU	Menu button: Allows you to scroll through menus.
7		Volume button: Controls the volume and other settings.
8	CONFERENCE	Conference button: Connect calling / called party to the conference
9	REDIAL	Redial button: To Redial the last number.
10	TRANSFER	Transfer button: Transfer redirects a connected
11	HOLD	Hold button: Put a call on hold
12	0-9，*，#	Basic Call Handling: Press "#" send out a call(default)
13	Speaker button	Speaker button: Toggles the speakerphone on or off. Red, steady: Pick up and enter normal call.
14	Softkey	Each displays a softkey function, To activate a softkey, press the softkey button.
15	Line/Programmable Buttons	Line button: Select the phone line(Call or Answer) Different colors for different status: 1）Red, flashing: There is an incoming call. 2）Red, steady: Pick up and enter normal call. 3）Yellow-green, flashing: Holding call. 4）Yellow-green, steady: Active call. Programmable Keys: Hotline number can be used to bind in order to achieve speed dial; Turn on BLF: 1) Red, steady: Remote line is busying. 2) Yellow-green, steady: Remote line is idle.
16	C	Back button: Return to the standby interface;
17	Navigation button	"Up": Open "Speed Call" list; "Down": Open "Missed Calls" list:

		"Left": Open "Received Calls" list; "Right": Open "Dialed Numbers" list
18	OK	OK button: To confirm the action;
19	Hands-free speakerphone	Hands-free voice of the output.
20	LCD screen	480*272 pixel Color high-definition display.
21	Status light	Red flashing: There are incoming call; Red, steady: Missed Calls, or phone busy;
22	Hands-free microphone	Hands-free voice of the output.
23	Line Expansion Module	Maximum support 6 ESM32 line expansion module (the total of 192 programmable buttons)

Figure 3.2 Interfaces of   620 Series
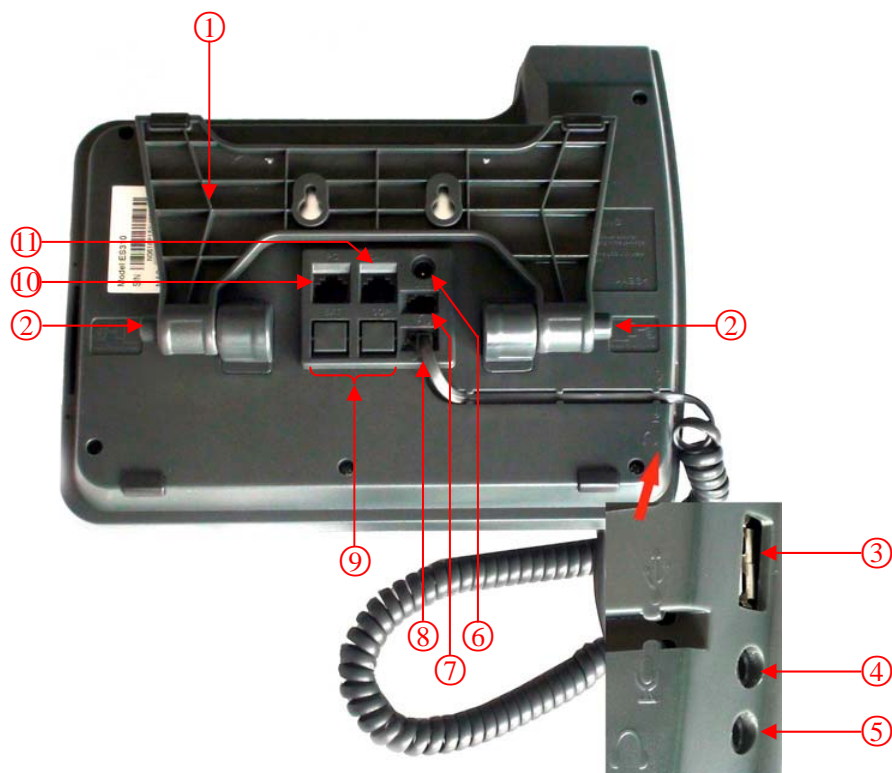
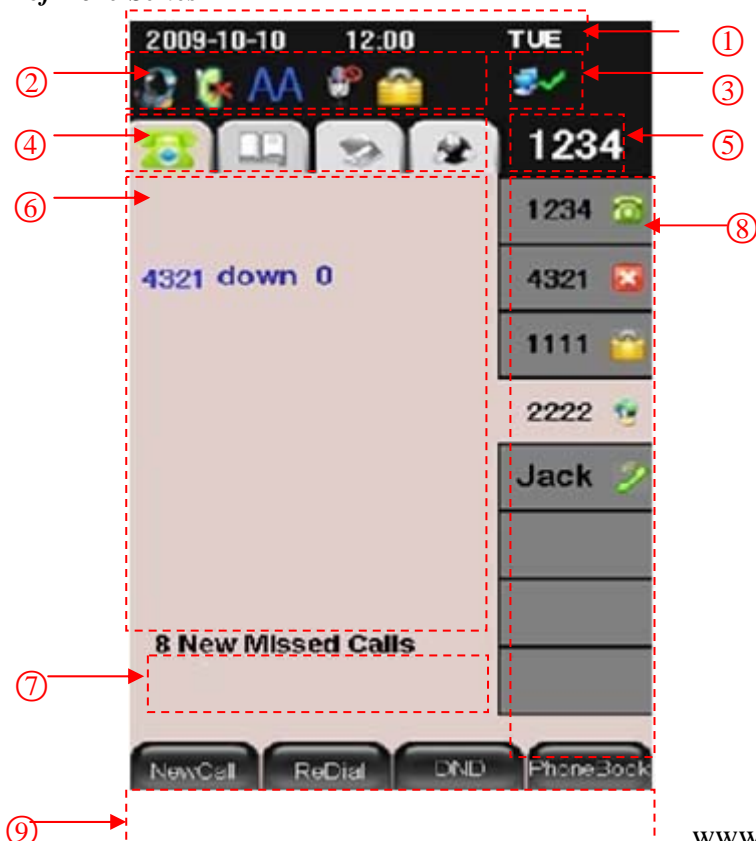| Num	Hardware	functions
1	Footstand	Hold up phone
2	Footstand button	Press buttons at the same time to adjust the angle
3	Reserved for USB port	Enhanced scalability
4	Microphone port	Connect the Microphone
5	Headphone port	Connect the Headphone
6	Power port	12V DC
7	Headset port	Support RJ11 interface connection
8	Handset port	Connect the Handset
9	EXT port	EXT: ESM interface;
10	LAN port	Connect to a LAN interconnecting device
11	PC port	Connect to a local PC
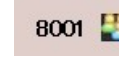
Understanding Phone Screen Features

This is what your main phone screen might look like with an active call:

Figure 3.3 LCD of   620 Series

Num	Screen	Functions
1	Time and Data	Display current time and data
2	Service status	1） : Headset turned on 2） : There are Missed calls 3） : Auto-answer turned on 4） : Mute turned on 5） : DND turned on
3	Network connection status	Phone LAN interface network connection status display: 1） : Network connection is successful 2） : Network is disconnected.
4	Menu Functions Page	1） : Phone Standby/Calling page 2） : Main menu/Call history page 3） : Phone Book page 4） : System Services page
5	Primary phone Line	Displays the phone number(extension number)for your primary Phone line.
6	Call activity Area	Displays calls per line, including caller ID, for the highlighted line.
7	Missed calls tips	Show the number of missed calls.
8	Line status/ Speed Call	1） 8001 : Line is successfully registered to a SIP server 2） 8001 : Line is not successfully registered to a SIP server 3） 8001 : DND turned on in this line 4） 8001 : Line is held

		5） : Peer-to-Peer status
		6） **8001** ：　dialing
		7） **8001** ：　talking
		8） **8001** ：　ringing
		9） **8001** : Transferring a call
		10） **8001** : 3-ways conference
		11） **Jack** ：　speed dial key
9	Softkey labels	Each displays a softkey function. To activate a softkey, press the softkey button.

4. Basic Call Handing

You can perform basic call-handling tasks using a range of features and services. Feature availability can vary; see your system administrator for more information.

Note: The bold type of the following text and following a "button" in table signifies the phone's button (for example, **OK** button), and the NewCall signifies softkey.

Placing a Call

Here are some easy ways to place a call on *620 Series* IP Phone: :

If you want to...	Then...	
Place a call using the handset	Pick up the handset;	--1）Hear the dial tone; --2）The first line light and display 8001 ; --3）Enter number; --4）Press "#" button(default); or press Send ; or wait five seconds(default) Then send the call;
Place a call using a Speakerphone	Press **Speaker** button; or **Programmable** buttons; or NewCall ;	
Place a call using a headset	Press **Headset** button.	
Redial	--Press **REDIAL** button to dial the last number -or press **Navigation button-Right** > "Dialed number", select a number, and press Dial or **OK** button.	
Dial from the Directory on your phone	--1) Press **MENU** or **OK** button > "Call history", you can select "Missed calls", "Received calls" and "Dialed numbers", - or press **Navigation button** (in Standby interface) > select "Missed calls" (**down**), "Received calls" (**left**) and "Dialed numbers" (**right**)); --2) Then press **OK** button or Dial .	
Place a call while Another call is active	--1) Press **Hold** button or Hold ; --2) Enter a number; --3) Press '**#**' button (default) ; -or press Send to send the number.	

Tips

• You can dial on-hook, without a dial tone (pre-dial). To pre-dial, enter a number, and then go

off-hook by lifting the handset or pressing Send , **Headset** or **Speaker** button.

• If you make a mistake while dialing, press **C** button to erase digits.

Answering a call

You can answer a call by simply lifting the handset，or you can use other options if they are available on *620 Series*:

If you want to...	Then...	
Answer with a handset	--1) Your phone ring; --2) **Line** button of the ringing line is Red⬤ and flashing, Light strip is Red⬤ and flashing; --3) Status of the line on the phone is 8001 🔔.	--Pick up the handset
Answer with the speakerphone (Non-headset mode)		--Press **Speaker** button -or press the **Line** button flashing Red⬤, -or press Answer
Answer with the a headset		--Put on headset, press **Headset** button so that the status light is Red⬤, and then do as using speakerphone
Switch from a connected Call to answer a ringing Call	--1) Another **Line** button is Red⬤ and flashing, Light strip is Red⬤ and flashing; --2) Press the flashing⬤ **Line** button to answer (at this time, the original call will be hold.)	
Auto-answer	--1) Press **MENU** or **OK** button > "Function settings" > "Auto answer"; --2) Select "Enable"; --3) Your phone answers incoming calls automatically after a few rings.	

Ending a Call

To end a call, simply hang up, here are some more details:

If you want to...	Then...
Hang up while using the Handset	--Return the handset to its cradle, -or press EndCall
Hang up while using the	--Press **Speaker** button that is Red⬤,

Speakerphone	-or press **Line** button for the appropriate line, -or press `EndCall`
Hang up while using the Headset	--Press **Handset** button, （Do not keep the headset mode）, -or press `EndCall` (keep the headset mode)
Hang up one call, but preserve another call on the other line	--Press `EndCall`, -or refer to the above three methods

Using Hold and Resume

You can hold and resume calls. You can take a call in one line at anytime, and the other lines would be hold. As a result of that, you can switch different calling line on our phone.

If you want to...	Then...
Put a call on hold	--Press **HOLD** button, -or press `Hold`
Hold a line and switch to another line	Press another **Line** button for the appropriate line
Resume a call on current line	--Press appropriate line button,
Release a call on different line	Select the line want to release hold, press the line, so recovery;

Tips

• Engaging the Hold feature typically generates music or a beeping tone.

• A held call is indicated by the Yellow-green ▭ and flashing Line button. And line status is `8001` .

Transferring Calls

Transfer redirects a connected call. The target is the number to which you want to transfer the call.

If you want to...	Then...
Talk to the transfer recipient before transferring a call (consult transfer)	--1) Press **TRANSFER** button or press ![Transfer]; --2) Enter number; --3) press "**#**"（default), -or press ![Send] then transfer the call, -or wait five seconds(default)then transfer the call
Transferred to idle lines or other numbers without talking to the transfer recipient (Blind transfer)	--1) Press **TRANSFER** button or ![Transfer]; --2) Press ![Blind]; --3) Enter number; --4) Press "**#**"（default) -or press ![Send], then transfer the call; -or wait five seconds(default)then transfer the call
Blind transfer to the Held line	--1) Press **TRANSFER** button or press ![Transfer]; --2) Press the **Line** button of held line

Using Mute

With Mute enabled, you can hear other parties on a call but they cannot hear you. You can use mute in conjunction with the handset, speakerphone, or a headset.

If you want to...	Then...
Toggle Mute on	Press **Mute** button, then the button is Red
Toggle Mute off	Press **Mute** button, then the button light off

Do Not Disturb

You can use the Do Not Disturb(DND)feature to block incoming calls on your phone with a busy tone(Can also be set to their voice mail or other extension numbers, etc.).

If you want to...	Then...
Enable global DND	--1) Press ![DND]; --2) All enabled line on the phone would changes to ![8001] status.
Enable DND on a single line	Press **MENU** or **OK** button > "Function setting" > "DND" > (select line) "Enable"
Disable DND	--Global DND enabled, press ![DND] to disable global DND; --Line DND enabled, press twice ![DND], -or press **MENU** or **OK** button > "Function setting" > "DND" >(select line) "Disable"

3-way Conference

You can establish a three-party conference, during the conversation three phone parties can communicate with each other.

If you want to...	Then...
Invite the transfer recipient into a conference in a transferring	--1) When the transfer recipient answer the call, press **CONFERCENCE** button or ![confer] on your phone; --2) Then the held one, transfer recipient and you will be into a conference.
Invite the third party into a conference in a active call	--1) Press **CONFERENCE** button or ![confer] in an active call; --2) Enter the third party number; --3) After connected the third party, press **CONFERENCE** button or ![confer] again
establish a conference	--1) when one phone line is holding on and the other line is busy;

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with held line	--2) Press **CONFERENCE** button,
	-or Press ![confer] Soft key
	--3) press the held line's programmable button, the 3-way Conference will establish.

Expansion　Installation

If you want to...	Then...
Expansion installation	--1) Press **MENU** or **OK** button > "Function setting" > "expansion installation", --2) if you want to install expansion, please according to tips to do ,after you install ,press"finish".

Expansion　Settings

If you want to...	Then...
Expansion setting	--1) Press **MENU** or **OK** button > "Function setting" > "expansion installation", --2) choose which you want to set "expansion" --3)choose which you want to set " programmable keys " --4)you can set : Mode:Speed Dial, Asterisk BLF, Speed Dial Prefix, BLA, DTMF Account :choose　account which you want to set Name:give it a name which you want Number: set your expansion number

Time & Date

If you want to...	Then...
Time & Date	--1) Press **MENU** or **OK** button > "Function setting" > "time & date", --2)you can select : SNTP: select "enable "to set parameter: time , server , daylight SIP server: select "enable " to set parameter: root can modify date . manual Settings: select "enable "to set parameter: date and time

VOIP Call Forwarding

If you want to...	Then...
Unconditional transfer	--1) Press **MENU** or **OK** button > "Function setting" > "voip call forwarding"; --2)select "unconditional transfer", select enable. --3)input number which you want to transfer, when have a call in ,it will unconditional transfer.
Busy transfer	--1) Press **MENU** or **OK** button > "Function setting" > "voip call forwarding"; --2)select "busy transfer", select enable. --3) input number which you want to transfer, when have a call in conversation ,it will transfer.

No answer transfer	--1) Press **MENU** or **OK** button > "Function setting" > "voip call forwarding"; --2)select "no answer transfer", select enable. --3) input number which you want to transfer, when have a call in but you don't have time to answer ,it will transfer.

5. Advanced Call Handling

Speed Dialing

Speed dialing allows you to enter an index number, press a button, or select a phone screen item to place a call.
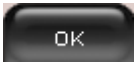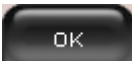
If you want to...	Then…

Set up Speed Dials on your phone	--1) Press **MENU** or **OK** button > "Function setting" > "Hot line ，You can configure twelve speed dial numbers on the *620 Series* IP Phone;
	
	 --3) Press **OK** button to set and modify:
	
	     -Mode:
	
	       -Hot Line: Dial quickly.
	
	       -Warn Line: It will auto dial after 5 sec.
	
	       -Press OK to save the changes
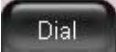
Using the phone book

You can store a large number of contacts in your phone's directory. You can add, edit, delete, dial, or search for a contact in this directory.

The personal phonebook can storage 300 contact entry,and the enterprise phonebook can storage 800 contact entry.

If you want to…	Then…

Add Contacts	--1) Press **DIR**
	
	-or press **MENU** button > "Phone book">"Personal phone book",
	
	-or press **Directories** button > "Phone book">"Personal phone book";
	
	--2) Press **OPT.**;
	
	--3) Select "Add contact", press **OK** button or ;
	
	--4) Use the navigation keys to select content, press **OK** button to set and modify:
	
	  -Name: set the name of contact,
	
	  -NO.1-3: you can set up 3 contacts' numbers,
	
	  -Group: the contacts be divided into different user's groups
	
	--5) Press **Save** soft key to complete

Add group	--1) Press **DIR** soft key, -or press **MENU** button > "Phone book">"Personal phone book", -or press **Directories** button > "Phone book">"Personal phone book"; --2) Press **OPT.** soft key; --3) Select the "add group" then press **OK** button or ; --4) Use the navigation keys to select content, press **OK** button to set and modify: -Group name: name of the group --5) Press **Save** soft key to complete
Modify group	--1) Press **DIR** soft key,

	-or press **MENU** button > "Phone book">"Personal phone book",
	-or press **Directories** button > "Phone book">"Personal phone book";
	--2) Press **OPT.** soft key;
	--3) Select the "Modify group" then press **OK** button or press ;
	--4) Select the group you want to modify, press the **OK** button or **OPT.** to set and modify, press **Save** to save the change
Delete group	--1) Press **DIR** soft key,
	-or press **MENU** button > "Phone book">"Personal phone book",
	-or press **Directories** button > "Phone book">"Personal phone book";
	--2) Press **OPT.** soft key;
	--3) Select the "Delete group" or **OK** button or ;
	--4) Select a group you want to delete, press **OK** button or
View/Edit Contacts	--1) Press **DIR** soft key,
	-or press **MENU** button > "Phone book">"Personal phone book",
	-or press **Directories** button > "Phone book">"Personal phone book";
	--2) Select "View ALL",
	-or select a contact who are belong to different group;
	--3) Select the contact, press the **OK** button or (to edit the contact's information, press **OK** button or **OPT.**)
LDAP	--1) --1) Press **DIR** soft key,
	-or press **MENU** button > "Phone book"
	-or press **Directories** button > "Phone book"
	--2)Select "LDAP", press the **OK** button.
	--3)Select "Search name->name", then input the name ,and press OK

	or Del.
	--4)Select "Search number->Number", then input the number ,and press OK or Del. **Pay attention: before you use LDAP function, you need to configure LDAP rule in the web configure page.**
Call from phone book	--1) Press **DIR** soft key, -or press **MENU** button > "Phone book">"Personal phone book", -or press **Directories** button > "Phone book">"Personal phone book"; --2) Select "View ALL", -or select a contact who are belong to different group; --3) Select a contact, then press , (If there are multiple numbers of one contact, press to enter the interface of "call options", select the one you want to call and press)

Using Call Logs

Your phone maintains records of your missed, placed, and received calls.

If you want to…	Then…
View your call logs	--1) Press **MENU** button > "Call history" > "Missed Calls", "Received Calls", or "Dialed numbers" --2) Use the navigation keys to view the call record information.
Dial from a call log	Please refer to the previous part *4.Basic call handing – Placing a call.*
Erase your call logs	--1) If you want to delete a call record, you have to select this record from the logs and press **Del;** --2) If you want to delete an entire call record list, you have to select this record list from the logs

Tips

• Each call log store up to 100 entries on   *620 Series* IP phone.

6. Keypad Instruction

 series IP phones are can be configured in two ways. The first you can use the phone keypad where you can settings for you IP phones, the other you can log in to User Options web pages where you can settings for you IP phones.

Use phone keypad to setting. Press **MENU** or **OK** button to the main menu, Use the navigation keys to select menu, press **OK** button to confirm menu selections, press **C** button or **Del** to delete input information.

Language

 620 IP Phone supports Simplified Chinese , English, Russian, French, Polish, Spanish, Portuguese

If you want to…	Then…
To change the language via phone interface	--1) Choose "System setting" > "Phone settings" > "Language"; --2) Scroll through the list of available languages. --3) Press **OK** button or **OPT.** when the desired language is highlighted. The language appears on the graphic display will be changed to the one you chose. --4)Or press OK button or MENU, navigate to Language, press OK, then select the language you want, press OK it will be changed to the one you chose.

SIP Account Settings

620 series IP phone make calls based on sip accounts, 620 series IP phones can support 8 independent SIP account, each account can be configured to different SIP server.

If you want to…	Then...
Create an sip account	--1) Choose "System settings" > "Advanced settings"; --2) Enter the password required（The default is empty）; --3) Choose "SIP" > "Accounts SIP"; --4) Choose one of the account you want to setting, you can configure the following parameters -**Enable account**: choose Enable -**Account Mode:** VOIP -**Display Name**: The name displayed on the screen -**User Name**: the account matched with the SIP server.（extension number）, -**Authen user**: the Authenticated users matched with the SIP server.（The default With the same account） -**user pwd**: the user password matched with the SIP server -**Description**: description of this account， -**SIP1**: the primary SIP server，By default all calls through the server， -**SIP2**: the secondary SIP ，When the primary server is unavailable ,use the SIP server -**Refresh time**: Registration refresh interval, the minimum value is 20 The default value is 3600. -**Con type**: the protocol use to communicate with SIP server. -**Amount of used lines**: the lines the extension used,can use 1-8,default is 2. --5）Set up the above parameters，Press **Save** softkey to saves settings，Complete the account creation; * **Note**: the parameters with the * mark must be setted.

Disable sip account	--1) Choose "System setting" > "Advanced settings";
	--2) Enter the password required（The default is empty）;
	--3) Choose "SIP" > "Account sip";
	--4) Choose "Enable account" > "Disable";
	--5）Press **Save** soft key

Network Setting

If you want to…	Then…
network setting	--1) Choose "System settings" > "Advanced settings";
	--2) Enter the password required（The default is empty）;
	--3) Choose "Network">"LAN Settings", you can configure the following parameters:
	-**Type**: static IP or DHCP or PPPOE
	-**IP**: enter IP address ，Note: Do not duplicate the ip address with other devices on the network
	-**Mask**: enter appropriate sub mask
	-**GW**: enter appropriate gateway
	- **DNS1**: enter IP address of the primary DNS server
	- **DNS2**: enter IP address of the secondary DNS server
	-**Web port**: the default Web port is 80,if you change it(for example change it to 88),you must use IP and Web port to login the web page (for example http://192.168.0.200:88).It will take effect on next reboot.
	-**Telnet port**: the default Telnet port is 23,if you change it(for example change it to 2003),you must use IP and Telnet port to login the manage page (for example telnet 192.168.0.200:2003).It will take effect on next reboot.

Load default settings

If you want to...	Then...
Load default settings	--1) Choose "System settings" > "Advanced settings"; --2) Enter the password required（The default is empty）; --3) Choose "load default settings ",and press "**OK**", then "**Reboot"** the phone.

Modify password

If you want to...	Then...
Modify password	-1) Choose "System settings" > "Advanced settings"; -2) Enter the password required（The default is empty）; --3) Choose "modify password ",then input "old password ,new password to change "Advanced password" to login IP phone

Customizing Rings and Volume

If you want to…	This…
Change the ring tone	--1) Choose "System settings" > "Phone settings" > "Ring type"; --2) Press navigation to choose ring tone; --3）Press [Play] softkey to choose a ring tone to play a sample of it. Press [Stop] softkey to Stop Playing

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	Press OK softkey to set the ring tone, Press **Back** softkey to return to previous menu.
Adjust the volume level	--1) Choose "System settings" > "Phone settings" > "Volume settings" --2）You can adjust the volume level of following types 　　-**Ring volume**: Phone call ring volume, 　　-**Handset volume**: Handle output volume， 　　-**Handset mic volume**: Handle input volume， 　　-**Speaker volume**: Hands-free speaker output volume， 　　-**Speaker mic volume**: Hands-free input volume， 　　-**Headset volume**: Headphone output volume， 　　-**Headset mic volume**: Headset microphone input volume

WIFI setting (only WS620 have this item)

If you want to…	This…
Set WIFI	--1)Choose "System settings">"advanced settings">"advanced password:" --2) Press navigation to choose WIFI setting; --3）Press "ok" button or **OK** 　-**Current site:** the wifi which the phone use now 　-**Site list**: where you can choose wifi --4）Press "site list", choose one wifi network which the phone searched 　-**SSID:** SSID name 　-**BSSID: the mac address of the WIFI network** 　-**Channel:the channel of the WIFI network use** 　-**Type:the type of the WIFI network** 　-**Encrypt:the encrypt of the WIFI network** 　-**Signal:the signal of the WIFI network** --5）Press "SSID",set WIFI which you choose

620 Series IPPhone

	-Encryption: the encryption of the WIFI network -Key type: the key type of the WIFI network -Key: the password which you should set to allow yourself to enter the WIFI network

Bluetooth setting(only UTT-620P have this item)

This is a new feature with UTT-620. It allowing you to receive calls wherever you are in the office through Bluetooth headset. You can be free to answer or hang up the calls.
When you using this feature, please make sure your IP phone's information is news than as below information:
IP Phone Model: UTT-620
Software version: up to V3.0.1.1-5502
If the IP phone software version is incorrect or lower than this, please contact administrator to update it. Also, you need to make sure you have BWM36. If you didn't have, you cannot use this Bluetooth feature.

Make your Bluetooth headset working:
- Make sure BWM36 equipment is connected and work normal.
- Make sure your IP phone support this Bluetooth feature.
- Make sure you have Bluetooth headset and work normal.
  Note: In the IP phone Bluetooth searching mode, you need to make your Bluetooth headset also in the searching mode. How to make your Bluetooth headset into the searching mode, please find and follow the Bluetooth headset User Guide. If the Bluetooth headset not in the searching mode, it will make the IP phone searching failed.
- **Setting way:** Menu> System Setting> Advanced Settings>Password(Default is empty)>Bluetooth

If you want to....	Then...
Bluetooth	You can Enable/Disable Bluetooth feature.
Current Bluetooth	You can saw the Bluetooth headset information with Name/MAC/State. Also you can disconnect the current Bluetooth headset and researching another equipment.
Bluetooth Searching	You can searching and connect the Bluetooth headset in the Bluetooth range. Please make sure your Bluetooth headset also in the searching mode. After connected, the interface will transfer to Current Bluetooth, you can saw the state and begin to used.

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Main Features:

>Plug and play, easy to use

>Support wideband audio

>Operating distance: 10 meters, Optimum distance: 1~2 meters(3~6 feet)

>Answer incoming calls through Bluetooth headset

>Terminate calls through Bluetooth headset

>Adjusts the volume through Bluetooth headset

>Transmitted power: Class 2

>Bluetooth frequency range: 2.402GHz-2.480GHZ

>Support 3xx/4xx/620 series IP Phone

>Symbol rate: 3Mbit/sec

View status

If you want to see the phone status,Press **MENU** button > "view status" ,or press **OK** button >

"view status", you can see the detail information of the phone.

If you want to	Then......
Network	You can see the network detail information of the phone
Lines	You can see the SIP account
software	It include phone Mode, software version, kernel version, Upgrade date, Running time
Expansion	Can check the expansion

Diagnose

If you want to check the phone hardware function,Press **MENU** button > "diagnose" ,or press

OK button > "diagnose", you can check the phone item as below.

If you want to	Then ....
Keys	You can check the phone keys
LCD	Press'**OK**'to start,press'**C**'to exit
Lights	Press'**OK**'to start,press'**C**'to exit
Sound	Press'**OK**'to start

WIFI setting(only WS620 has this item)

Tips: The WIFI ip phone support 802.11b/g/n, not support 802.11a.

If you want to…	This…

Set WIFI	--1)Choose "Menu">"System settings">"advanced settings">"advanced password (default is empty)"
	
	 --2) Press navigation to choose WIFI settings;
	
	 --3）Press "ok" button to change the it **Enable** or **Disable**
	
	    -Set WIFI IP: Default IP: make it default setting , **Modify IP:** change it what you want. **Mode: mode one: change the wifi IP 10.0.X.X/8 ;mode two : change the wifi IP 1.0.X.X/8 (it can prevent IP conflict)**
	
	    -Current site: the wifi which the phone use now and information
	
	    -**WPA/WPA2:** select the encryption mode(AES/TKIP)
	
	    -**Site list**: search site what you want to connect.
	
	 --4）Press "site list", choose one wifi network which the phone searched
	
	   -SSID: SSID name
	
	   -BSSID: the mac address of the WIFI network
	
	   -Channel:the channel of the WIFI network use
	
	   -Type:the type of the WIFI network
	
	   -Encrypt:the encrypt of the WIFI network
	
	   -Signal:the signal of the WIFI network
	
	 --5）Press "SSID",set WIFI which you choose
	
	   -Encryption: the encryption of the WIFI network
	
	   -Key type: the key type of the WIFI network
	
	   -Key: the password which you should set to allow yourself to enter the WIFI network

7. Web Settings

We can configure the IP Phone more handy through web setting. Press OK button on the keypad of the phone to enter the status page and find out the IP address of IP phone. Enter it (for example you can enter the default ip of the phone: http://192.168.0.200) into the address bar of web browser. The default login name and password are both "root".

Config Guide

You can finish the base configration step-by-step by this guide.

When press 'next', you can configure the Network parameters for the phone,

After config the network parameter,press next,then you can config sip account for the phone.

Press Finish,the base configuration of the phone is complete,now you can use the phone to call with sip.

WIFI Setting(only WS620 has this item)

Connected with WIFI as following the picture . You can open it up and select the support encryption mode. Press "Site Survey" to refresh the SSID information.

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
escene3	0022b0fbd3c6	10	b/g	WPA-PSK/WPA2-PSK	52	●
escene6	0019e0ac5058	10	b/g	WPA-PSK/WPA2-PSK	52	○
gzxx	ec6c9f086806	8	b/g	WPA2-PSK	34	○
D1	f4ec38497e34	1	b/g/n	WPA2-PSK	34	○
escene2	0025865ca320	6	b/g	WPA-PSK/WPA2-PSK	32	○
Aeromat	28107b4ff5d8	11	b/g	WEP	28	○
wuxiaoli	6ce8737bcb74	6	b/g/n	WPA-PSK/WPA2-PSK	24	○

When you choise an SSID above, press "Next" you can see as the following picture.

Press "Finish" to complete this operation. There has a tips "WIFI is Connecting, 20s it will auto jump to the wifi status page, please wait ". And you will see some information as the following picture.

Network

You can config the network parameters for the phone on the web page.

Choose network,you will find the following parameters:

Field	Description
DHCP	Config the phone get ip info from DHCP server
IP Address	Config the ip manual for phone
Netmask	Config the netmask manual for phone
Gateway	Config the gateway manual for phone
Username (pppoe)	The pppoe username
Password (pppoe)	The pppoe password
MTU (pppoe)	The mtu for pppoe,default is 1500
Primary DNS	The primary DNS server
Secondary	The secondary DNS server

MAC Address	Display the MAC of the phone
HTTP Port	The default web port is 80,if you change it(for example change it to88), You must use IP and Web port to login the web page(for example http://192.168.0.200:88). It will take effect on next reboot.
Telnet Port	the default Telnet port is 23,if you change it(for example change it to 2003),you must use IP and Telnet port to login the manage page (for example telnet 192.168.0.200:2003).It will take effect on next reboot.

SIP Account

The phone attempts to register to the SIP server using the account/registrar data provided by the automatic or manual initialization.

Choose one Account, you will find the following parameters:

Field	Description
Enable	You can choose on/off to enable/disable the line.
Account Mode	You can choose VOIP

Display Name	It is showed as Caller ID when making a phone call
Username	It is a username provide by SIP Server
Authenticate Name	It is authenticated ID for authentication
Password	It is a password provide by SIP Server
SIP Server	Server for registration, provided by administrator
Register Expire Time	IP phone automatically registered every time
Amount Of Line Account Used	The line key of account used, default is 2

Programmable Keys

In the Programmable Keys option, you can use all the 8 line keys of UTT-620 as programmable keys.

Choose Programmable Keys,you will find the following parameters:

Fiel	Description
Line (Mode)	Use specific Key as Line key,default is Line key
Speed Dial(Mode)	Use specific Key as Speed Dial key
Asterisk BLF(Mode)	Use specific Key as BLF key
Speed Dial	Use specific Key as Speed Dial Prefix key
DTMF	Use specific Key as DTMF key
SIP URL	Use specific Key as SIP URL
Asterisk BLA	Use specific Key as BLA key

Account	Select a SIP account relating this programmable key,that is you can dial to the specific number from this SIP account
Name	The name for the programmable key
Number	The phone number relating this programmable key,that is the number you use the programmable key to dial

Expansion Module

Expansion module is extended Hotline function; you can believe it support more hotline by using Expansion module. You can refer to *2.Connecting Your Phone* about connecting of Expansion module.

After connecting Expansion module to a phone, you can install it as follow:

1)After installing, you can set parameters of each Extension as follow:

Expansion module	
Key n	Each Expansion module supports 32 keys.

Mode	Five modes:
	    --Speed Dial: Enable speed dialing in this key;
	    --Asterisk BLF: Enable BLF in this key;
	    --Speed Dial Prefix
	    --DTMF
	-- SIP URL
	--Broadsoft BLF

	--Asterisk BLA
Account	A SIP account relates to this key, another word, you will call this hotline by this SIP account.
Name	Description of this hotline.
Number	Number relates to this key.

*Regarding the settings of Expansion module, please confirm the model of your phone is UTT-620_E/UTT-620_PE.

Audio

The IP phone supports the following voice codes: G.722, G.711A, G.711U, G.723, and G.729A.

You can enable/disable the desired codes via Web interface. Please contact your system administrator for more details about the codes.

To enable/disable the codes:

1) Choose "Audio>Tone", you can modify "Dial Tone, Ring Volume"

2) Choose "Output volume", you can modify "Handset Volume, Speaker Phone Volume, Headset volume"

3)Choose "Input Volume ",you can modify volume" Handset Mic Volume, Speaker Phone Mic Volume, Headset Mic Volume"

4)Choose "Voice codec" you can modify "payload Length", normally is 20ms.

5)Choose" Ring", you can delete which you don't want to use.

6)Choose "Upload Ring", you can upload the music which you like, but upload G729 less than 30k.

7)Choose "Audio Codec", Use the navigation keys to highlight the desired one in the Enabled/Disable Codes list, and press the >> / << to move to the other list.

8)Choose Submit to save the change.

Of course, you can control the voice bulk in this choose.

Phone Book

Group

You can add, edit and delete group in a phone book on web page of UTT-620.

1) Click "Phone Book" > "Group",

If you want to add a Group, you just ought to click 'Add Group' .

You can edit an existed Group by click .

You can delete an existed Group by click , if you want to delete all Groups, you just ought to click 'Delete All Group'.

2) When you add a group or edit an existed group, you can set several parameters as follow:


Group	
ID	Serial number of a group
Description	Description of a group
Group Name	Name of a group

Contact

You can add, edit and delete contact in a phone book on web page of UTT-620.

The phonebook can storage 300 contact entry.

1) Click "Phone Book" > "Contact",

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Contact				
ID	Operation	Name	Phone	Group
1	✏ 🗑	bujk	Number1:13719340974	market
2	✏ 🗑	chenli	Number2:1297	sales

[Add Contact] [Delete All Contact]

If you want to add a Group, you just ought to click 'Add Contact'.

You can edit an existed Contact by click ✏ .

You can delete an existed Contact by click 🗑 , if you want to delete all Contacts, you just ought to click 'Delete All Contact'.

2) When you add a Contact or edit an existed Contact, you can set several parameters as follow:

Contact	
Serial Number	Serial number of a contact
First Name	The First Name of a contact
Last Name	The Last Name of a contact
Mobile Number	The Number1 phone number of a contact
Office Number	The Number2 phone number of a contact
OtherNumber	The Number3 phone number of a contact
Group	You can assign a contact to a specific group. If there isn't any group set on the phone, the group is None by default.
Account	Select a SIP account relating this contact, that is you can dial to the contact from this SIP account.

LDAP

1).Overview

LDAP stands for Lightweight Directory Access Protocol which is a client-server protocol for accessing a directory service. LDAP lets you locate organizations, individuals, and other resources such as files and devices in a network, whether on the Internet or on a corporate intranet, and whether or not you know the domain name, IP address, or geographic whereabouts.

An LDAP directory can be distributed among many servers on a network, then replicated and synchronized regularly.

2).Configuration

Please note that LDAP Phonebook support on
UTT-620\UTT-410\UTT-330\UTT-320\UTT-310\UTT-210, the version must be V2.2.3.1-2210 and higher, then access to the web "PhoneBook>LDAP page, you can find the configured option is like following picture. the detail configure in the appendix.

BanList

You can add, edit and delete banlist in a phone book on web page of UTT-620.

1) Click "PhoneBook" > "BanList",

If you want to add a BanList, you just ought to click 'Add BanList'.

You can edit an existed BanList by click ✏ .

You can delete an existed BanList by click 🗑 , if you want to delete all BanLists, you just ought to click 'Delete All BanList'.

2) When you add a BanList or edit an existed BanList, you can set several parameters as follow:

BanList	
Serial Number	Serial number of a BanList
Description	Description of a BanList
First Name	The First Name of a ban contact
Last Name	The Last Name of a ban contact
Mobile Number	The number1 phone number of a ban contact
Home Number	The number2 phone number of a ban contact
Office Number	The number3 phone number of a ban contact
Account	Select a SIP account relating this ban contact, that is the ban contact can't dial to this SIP account.

Enterprise Phonebook

You can download Enterprise Phonebook from this web interface. But you should do second develop on the sip server to enable this function completely.

If the sip server no add some function to hold this option ,this option can be userd.

Enterprise Phonebook

☐ Auto Download Enterprise Phonebook

Server IP: [   ]

Password: [   ]

Submit

Advanced

Phone Setting

You can use phone setting to set the time,qos,port Mirroring for the phone.

Phone Setting

Basic

Called No AnswerTime: ☑ `30` s (Min:20, Max:99)

DTMF: ◉ RFC 2833 ○ Inband ○ SIP Info ○ Auto

Pound Send Method: ◉ # ○ %23

RFC 2833 PayLoad: `101`

BackLight: ○ off ○ Always On ◉ timer `60` s (Min:1, Max:255)

PSTN Setting

PSTN Ring Type: ○ PSTN Ring ◉ VOIP Ring

PSTN Prefix Code:

VOIP Prefix Code:

Hook: ○ off ◉ on

Hook Frequency: `500` (Default:500 min:100 max:1600)

Call

Hot Line Function: ◉ off ○ Immediately Hot Line ○ Delay

Hot Number:

Auto Answer: ◉ off ○ on

Pickup Code: `123`

Message: `*97`

Fuzzy Search: ◉ off ○ on

If Busy: ◉ off ○ on   Number:

If No Answer: ◉ off ○ on   Number:

Ring Frequency: `15` Second (Default: 15s, Max: 15s)

Set Time Mode: ○ SNTP ◉ SIP Server ○ PSTN ○ Manual

SNTP Server: sparky.services.adelaide.edu.au

◉ `sparky.services.adelaide.edu.au` ▾   List

○ `sparky.services.adelaide.edu.au`   Manual

Daylight Saving Time: ☐

Time Format: ◉ 24 Hour ○ 12 Hour

Time Zone-GMT: `GMT+08:00 Beijing` ▾

Manual Setting

`2000` Year `1` Month `1` Day `0` Hour `0` Minute `0`

Other

QoS: `40` Diff-Serv or Precedence

Check When Upgrade Software: `Check` ▾ BLF Light: `On` ▾

Headset Mode: ◉ Normal ○ Seat Mode

Ring Type On Seat Mode: ◉ Headset ○ Speaker

Network Packet Mirroring: `On` ▾

[Submit]

When used Phone Setting option,you can set several parameters as follow:

Phone Setting	
DTMF	The DTMF transmitted mode,include RFC 2833,Inband,SIP Info
BackLight	The backlight of the phone LCD
Set Time Mode	The mode of set time for phone,include SNTP/SIP Server/Manual
Daylight Saving Time	Enable/disable the DST for the phone
Time Format	You can use 24 hour time format or 12 hour time format
Time Zone-GMT	You can select different time zone for the phone
Manual Setting	This used to manual set time for the phone
QoS	The qos priority,support diff-serv and precedence
Network Packet Mirroring	When select on,then you can capture the phone's packet use notebook which connect to pc port of the phone

VLAN Setting

You can add the phone and PC to different VLAN used VLAN Setting option.

When used VLAN Setting option, you can set several parameters as follow:

VLAN Setting	
Enable VLAN	You can enable/disable vlan for phone and pc
VID	The vlan you want the phone or pc to join

VPN Setting

If you want to use VPN function ,you need to setup a VPN server, you should fill below options.
When used VPN Setting option, you can set several parameters as follow:

VLAN Setting	
Enable VPN	You can enable/disable VPN for phone and pc
VPN Type:	There is two choose you can choice.
VPN Server Addr	VPN server's ip
VPN User Name	VPN user's name
VPN User Name	A password be use for authentication
SSL_VPN	You can upload VPN config

BLF setting

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Add Group	You can add group
Delete All Group	You can delete all group
All users	You can add users

You can add group

After you add group, you can edit or delete group, you also can add user ,press"All users"

You can add contact.

You can set user information

Trusted Certs

You can upload trusted certs.

Dial Plan

If you want to setup a dial plan, you can click "Dial Plan".

Click "add rule" to entry this interface.

Dial Plan Setting

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ID	Dial Plan ID
IP	The ip of a phone which you want to call
prefix	The number which you need to press actually if you want to call the phone
Called Insert Number	There have two option, Enable or Disable.
Position	Which position you want insert the number
Number	Waht number you want to insert
Called Delete Number	There have two option, Enable or Disable.

Tips
(Note: When you want to add code and delete at the same time, you can add code first, after that base on the number you add, decide the position and length of the delete code.)

Global SIP

You also can setup the SIP server on Global SIP, if the phone support some SIP accounts,you can set the SIP Server in the Global SIP,and don't need to set in SIP account.

Wallpaper

You can upload picture on the phone, it can display the picture in different type.

When used Wallpaper option, you can set several parameters as follow:

Wallpaper	
Please select picture type	The type of picture display on the phone LCD, it include Standby/Screensaver/Booting
Please input picture file	Select the picture you want to upload to the phone.

Phone Maintenance

Log

If you need to catch a debuging Level, you need setup on this interface.

Password

You can change the password used to login phone GUI in Password option.

In Password option, you can set several parameters as follow:

Password	
Username	The login username of the web page
Old Password	The old password used to login of the web page
New Password	The new password used to login of the web page
Confirm Password	The new password used to login of the web page
Administrator	Login phone web page used administrator privileged
User	Login phone web page used general user privileged

Default Setting

You can load the phone to the factory default setting in default setting option.

Press the 'Reset to Factory Setting' option,the phone will load to factory default setting on next reboot.

Auto Provision

When you open the auto provision function, the phone will auto provision if the phone detect a

higher software or kernel which are put on the software server. The detail information about auto provision you can see the appendix.

When use auto provision, you can set several parameters as follow:

Auto Provision	
Auto Provision	You can enable/disable auto provision by select on/off
Protocol	The protocol use for auto provision, it include tftp/http/ftp
Software Server URL	The server address of the auto provision
Username	The username provide by provision server
Password	The password provide by provision server
Auto Download Software	This used to auto download software from server
Auto Download Kernel	This used to auto download kernel from server
Auto Download Config File	This used to auto download config file from server
Auto Download Expansion	This used to auto download expansion's config from server
Auto Download Enterprise Phonebook	This used to auto download enterprise phonebook from server
Auto Download Personal Phonebook	This used to auto download personal phonebook from server

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Booting Checked	This used to checked the auto provision when phone booting
Auto Provision Frequency	This used to set the time interval for auto provision
Auto Provision Time	This used to the specific time for auto provision
AES Enable	You can enable/disable AES encrypt for auto provision
AES Key	The key of the AES
Auto Provision Now	This used to do auto provision immediately

TR069

When the telegraphy want to test IMS, you can use this function.

FTP Upgrade

You can upgrade the software, kernel and configure file for the phone use ftp.

When use ftp upgrade, you can set several parameters as follow:

FTP Upgrade	
Server IP	The ip address of the ftp server
Filename	The name of the file want to download from ftp server
Username	The username provide by ftp server
Password	The password provide by ftp server
Software Upgrade	Used to upgrade the software of the phone
Kernel Upgrade	Used to upgrade the kernel of the phone
Configuration	You can used update/backup to update/backup the configure file of the phone
Phone Book	You can used update/backup to update/backup the phonebook of the phone
EXT Module	You can used update/backup to update/backup the expansion of the phone

TFTP Up grade

You can upgrade the software, kernel and configure file for the phone use tftp.

When use tftp upgrade, you can set several parameters as follow:

TFTP Upgrade	
Server IP	The ip address of the tftp server
Filename	The name of the file want to download from ftp server
Software Upgrade	Used to upgrade the software of the phone
Kernel Upgrade	Used to upgrade the kernel of the phone
Configuration	You can used update/backup to update/backup the configure file of the phone
Phone Book	You can used update/backup to update/backup the phonebook of the phone
EXT Module	You can used update/backup to update/backup the expansion of the phone

HTTP Upgrade

You can upgrade the software, kernel and configure file for the phone use http.

When use http upgrade, you can set several parameters as follow:

HTTP Upgrade	
Select a File	Browse the software/kernel/config file you want to upgrade from http
Software Upgrade	Used to upgrade the software of the phone
Kernel Upgrade	Used to upgrade the kernel of the phone
Configuration	You can used upload/download to upload/download the configure file of the phone
Phone Book	You can used upload/download to upload/download the phonebook of the phone
EXT Module	You can used update/backup to update/backup the expansion of the phone

Reboot

You can use reboot option to reboot the phone.

When you press 'Reboot', the phone will reboot.

Phone Status

You can see the currently status of the phone when use Phone Status option.

```
Phone Status

        System Run Time        0 Day0 Hour17 Minute37 Second
        Register status
                    Account1:  Registered
                    Account2:  Unregister
                    Account3:  Unregister
                    Account4:  Unregister
                    Account5:  Unregister
                    Account6:  Unregister
                    Account7:  Unregister
                    Account8:  Unregister
                    EX Module1:  Off Line
                    EX Module2:  Off Line
                    EX Module3:  Off Line
                    EX Module4:  Off Line
                    EX Module5:  Off Line
                    EX Module6:  Off Line
        Network Status
                    Connection:  Dynamic
                    IP Address:  192.168.2.136
                    Netmask:  255.255.0.0
                    Gateway:  192.168.0.10
                    Primary DNS:  192.168.0.10
                    Secondary DNS:
                    VPN IP Address:
```

System Info

You can see the system information when used System Info option.

```
            Software Version:  V2.2.6.2-2733
                 Web Version:  2.9.3.2
              Kernel Version:  v2.2.9
    AutoProvision Server URL:  TFTP://192.168.0.201
              TFTP Server IP:  TFTP://192.168.0.201
```
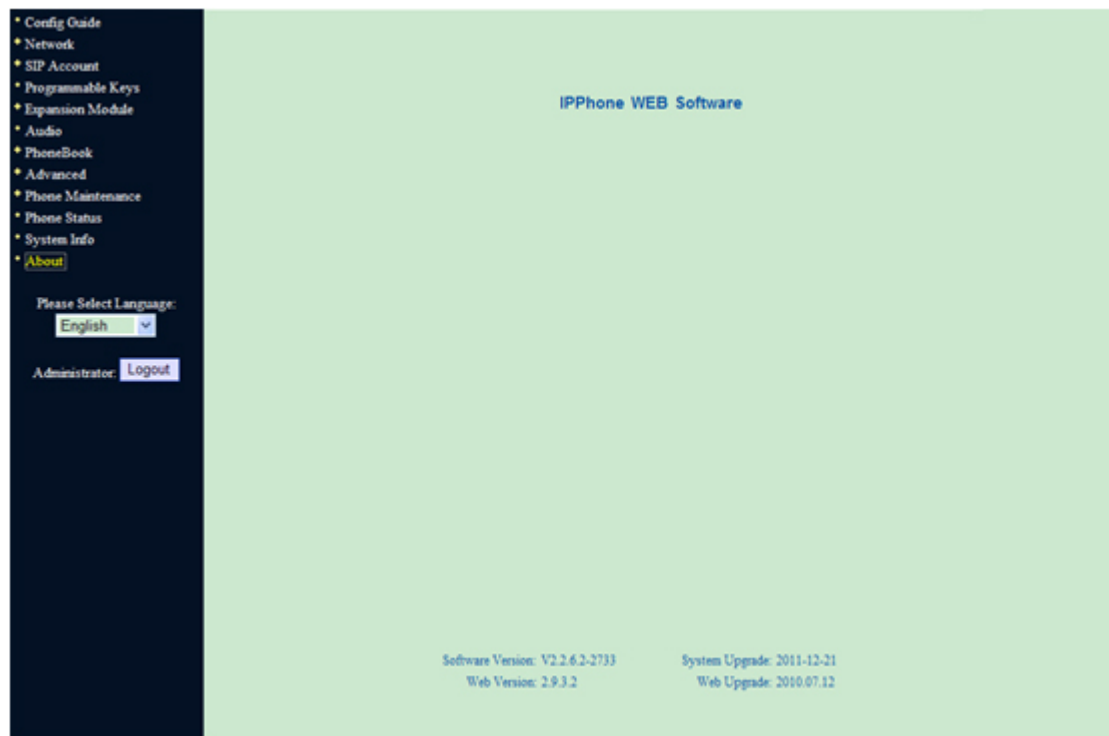
[Refresh]

Attention:

On this interface ,you can see the software and kernel which we used for test and this user_manual is written base on this software and kernel.

This software version is V2.2.6.2-2733

This kernel version is v2.2.9

About

You can see the phone model when used About option.

Appendix：

Auto Provision

Pre-configuration on TFTP/HTTP/HTTPS/FTP Server

When the software or kernel auto-provision is enabled and want to run, IP Phone will check the software and kernel version at first, so we need make some pre-configuration on the provisioning server.

Auto Provision for Software:

1. Create a notepad file named"**F000X00.cfg**"(the "X" is decided by the model of the IP phone you are using, for example, if the model is UTT-620, the file name is "F000600.cfg");

   Named rule of the file:

   F00600.cfg: for UTT-620, UTT-610 and UTT-620;

   F00400.cfg: for UTT-410 and DS412;

   F00300.cfg: for UTT-310 and DS312;

   F00200.cfg: for UTT-210 and DS212.

2. Open the notepad file "F000X00.cfg" and write the new software name in it, for example,

   S_UTT-620_version2.0.4.6: for UTT-620, UTT-610 and DS622;

   S_UTT-410_version2.0.4.6: for UTT-410 and DS412;

   S_UTT-310_version2.0.4.6: for UTT-310 and DS312;

   S_UTT-210_version2.0.4.6: for UTT-210 and DS212

   Write down the new version you want to upgrade and save it on your provisioning server.

   Please note that if the version is not older than (and same as) the one on your phone, auto-provision of your software would be not available.

3. After it, upload the new software to the TFTP/HTTP/HTTPS/FTP provisioning server and complete the pre-configuration steps.

Auto Provision for Kernel:

1. Create a notepad file named"**K000X00.cfg**"(the "X" is decided by the model of the IP phone you are using, for example, if the model is UTT-620, the file name is "K000600.cfg");

   Named rule of the file:

   K00600.cfg: for UTT-620, UTT-610 and DS622;

   K00400.cfg: for UTT-410 and DS412;

   K00300.cfg: for UTT-310 and DS312;

   K00200.cfg: for UTT-210 and DS212.

2. Open the notepad file "K000X00.cfg" and write the new kernel name in it, for example,

   K_uImage_600.bin_version2.1.6: for UTT-620, UTT-610 and DS622;

   K_uImage_400.bin_version2.1.6: for UTT-410 and DS412;

K_uImage_300.bin_version2.1.6: for UTT-310 and DS312;

K_uImage_200.bin_version2.1.6: for UTT-210 and DS212

Write the new version you want to upgrade and save it on your provisioning server.

Please note that if the version is not older than (and same as) the one on your phone, auto-provision of your kernel would be not available.

3. After it, upload the new kernel to the TFTP/HTTP/HTTPS/FTP provisioning server and complete the pre-configuration steps.

Configuration files on TFTP/HTTP/HTTPS/FTP Server

● **Name of configuration file:**

The configuration file on the provisioning server is named as the MAC address of IP phone itself. Ultrative's IP phones support two different configuration files for auto-provision:

1. Normal Configuration file:

Normal Configuration file is the configuration file of your Ultrative IP phone. You can download it from your phone (You can see the following chapter to see how to download a configuration file from Ultrative IP hone) and modify by yourself. If the IP phone's MAC address is 00:11:22:33:44:55, the normal configuration file of it should be *001122334455.xml*.

2. Broadsoft Configuration files:

Broadsoft Configuration files support the format of Broadsoft IP-PBX. However, you can use them for provisioning. There are two files should be set on your provisioning server, they are also named by the MAC address of your phone

1) *001122334455.cfg*: a configuration file for system settings, for example, network, audio and so on.

2) *001122334455.txt*: a configuration file for SIP accounts.

● **Download a configuration file from your phone:**

You can download a configuration file from your phone by HTTP as follow:

1. Open the web page of your IP phone, click "Phone Maintenance">"HTTP Upgrade";

2. Then click "Download" of Configuration:

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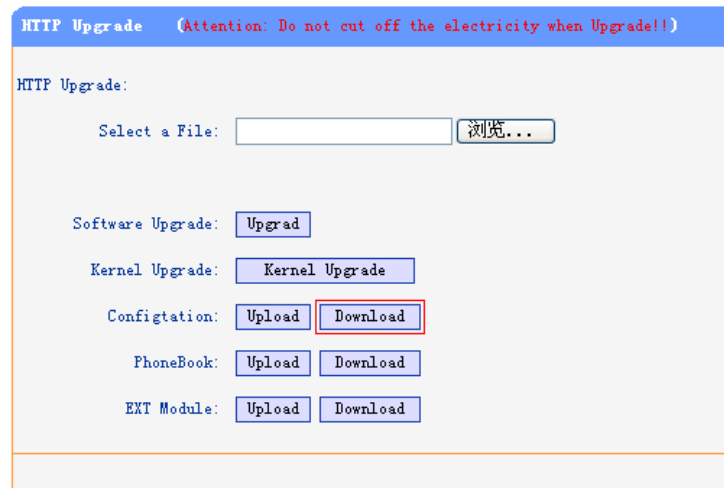
3. If you want to use this file to auto-provision, you just need to modify it by yourself and rename it to the MAC address of your IP Phone with .xml suffix.

Extern.xml file on TFTP/HTTP/HTTPS/FTP Server

The Extern.xml includes the settings of programmable buttons on the phone and all Expansion Modules. All the phones can download the settings from a same file and they will have the same settings (for example, Speed-dial, BLF and so on).

You can't rename the file on the provisioning server. The file name is fixed to **Account1_Extern.xml**.*(Account1 is the first account you register)*

Phonebook on TFTP/HTTP/HTTPS/FTP Server

Ultrative IP phone supports Enterprise Phonebook and Personal Phonebook.
● **Enterprise Phonebook:**
Enterprise Phonebook is used for all staffs in your office. All phones will download a common phonebook for all staffs. The file's name must be **Enterprise_Phonebook.xml** on your provisioning server and you can not rename it.
● **Personal Phonebook:**
Personal Phonebook is individual for each IP phone. The file on your provisioning server is named by the first account of your IP phone. If the IP phone's first account is 1287, the Personal Phonebook of this phone is **1287_Phonebook.xml**.

Automatic Provisioning using DHCP Option 66

The following steps will descript auto-provision by TFTP. You also can use HTTP and FTP for auto-provision with our phones.

DHCP Server: (Microsoft Windows 2003 server)

1. Start up the "DHCP Management Console";
2. Expand the DHCP scope which will contain the phones
3. Right-click on the "Scope Options" node
4. Select "Configure Options"
5. In the "General" tab, scroll down the list of options and identify the option labeled "066 Boot Server Host Name"
6. Enable the "066 Boot Server Host Name" and enter the string value according to the examples discussed previously

   > string value:
   > 192.168.0.201(TFTP Server IP Address);

7. Click the "OK" button

IP Phone:
1. Input the IP Phone's IP Address in browser;
2. Enter user and password with "root" then open the web page;
3. Click "Phone Maintenance" and select "Auto Provision";
4. Select like as follows:

5. Click "Submit" to save it.

Auto-Provision via fixable TFTP/HTTP/HTTPS/FTP Server

IP Phone:
1. Input the IP Phone's IP Address in browser;
2. Enter user and password with "root" then open the web page;
3. Click "Phone Maintenance" and select "Auto Provision";
4. select like as follows:

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It supports three protocols in Auto-Provision:TFTP,HTTP and FTP.

The format with provisioning server URL is:

TFTP:

TFTP://192.168.0.201(192.168.0.201 is the default Server IP address)

HTTP:

HTTP://192.168.0.201

HTTPS:

HTTPS://192.168.0.201

FTP:

FTP://192.168.0.201

Username: the user to login FTP/HTTP/HTTPS server

Password: the password of the user using to login FTP/HTTP/HTTPS server

Username and password are available in FTP/HTTP/HTTPS only (unavailable in TFTP).

Auto Download Software:

Download software from server and upgrade it automatically.

Auto Download Kernel:

Download kernel from server and upgrade it automatically.

Auto Download Config File:

Download configuration file from server and update it automatically.

BroadsoftCompatibility:

If you select this function, you need to put two configuration files (with Broadsoft format) on the provisioning server. Otherwise, you can download the configuration file from your phone via HTTP (regarding the steps, you can refer to *"Download a configuration file from your phone"* in this document.), modify it and upload it to the server for auto-provision.

Auto Download Expansion:

Download configuration file of the Programmable buttons on your phone or Expansion Modules automatically.

Auto Download Enterprise Phonebook:

Download Enterprise Phonebook from server and update it automatically.

Auto Download Personal Phonebook:

Download Personal Phonebook from server and update it automatically.

Booting Checked:

Check all items you had selected and upgrade/update them when the phone boot

Auto Provision Frequency:

The auto provision Frequency which you want.

Auto Provision Time:

The time you want to execute auto-provision.

Examples of Auto Provision Frequency and Time

1) When you set the **Auto Provision Frequency** and disable**Auto Provision Time** (set to None), the Auto Provision function will work after the **AutoProvision Frequency**;

2) When you set both **Auto Provision Frequency** and **Auto Provision Time**, for example:

You set the **AutoProvision Frequency** to 24 hours, and the **Auto Provision Time** to 2:00 at 8:00 today (1, Jan), it will pass 24 hours at first and work at the nearest 2:00, it means that the Auto Provision function will work at 2:00 on the day after tomorrow (3, Jan).

Therefore, if you want this function work at 23:00 tonight and it is 8:00 now, you need to set the **Auto Provision Frequency** to 0 hours and the **Auto Provision Time** to 23:00.

AES Encryption:

AES encryption is used for all the setting files of your phone (include configuration file, Expansion file, Enterprise/Personal Phonebook etc. You just need to enable the

AES Encryption function and input the AES Key matching the one on your server on.
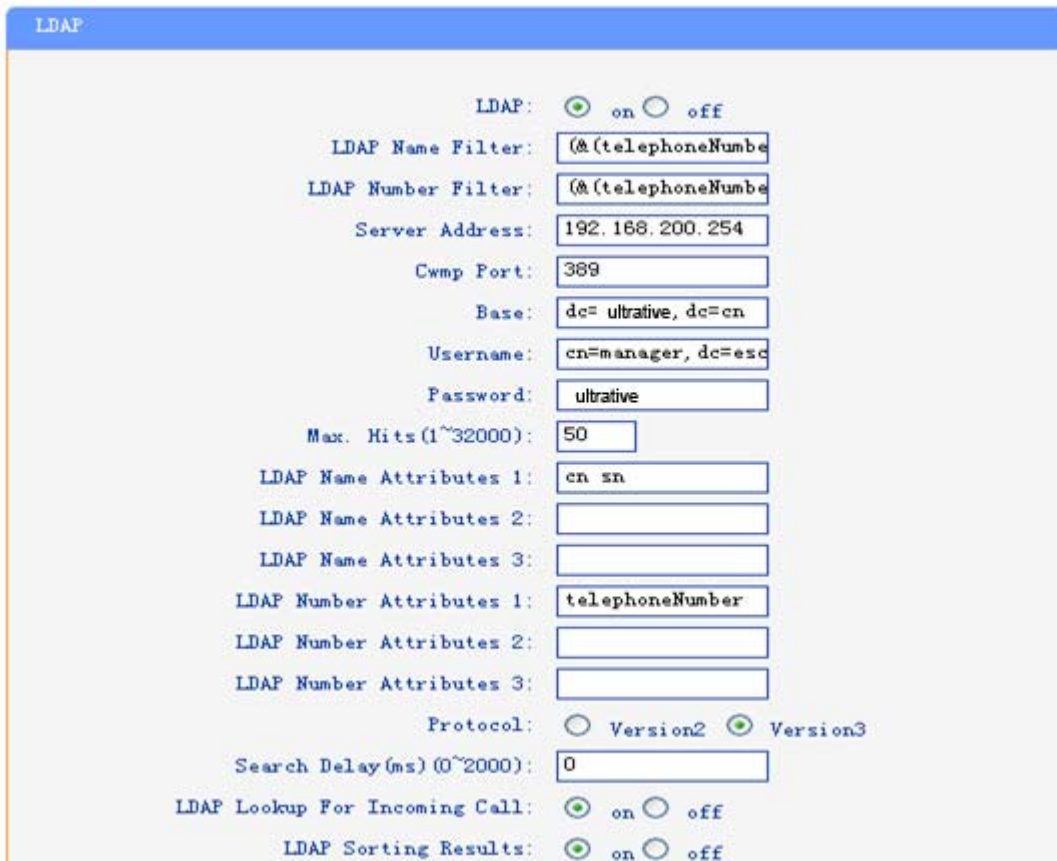
LDAP CONFIG

1. Overview

LDAP stands for Lightweight Directory Access Protocol which is a client-server protocol for accessing a directory service. LDAP lets you locate organizations, individuals, and other resources such as files and devices in a network, whether on the Internet or on a corporate intranet, and whether or not you know the domain name, IP address, or geographic whereabouts.

An LDAP directory can be distributed among many servers on a network, then replicated and synchronized regularly.

2. Configuration

Please note that LDAP Phonebook support on UTT-620\UTT-410\UTT-330\UTT-320\UTT-310\UTT-210, the version must be V2.2.3.1-2210 and higher, then access to the web UI￠ PhoneBook￠ LDAP page, you can find the configured option is like following picture.

We introduce each parameter attributes in following section.

3. Attributes

3.1 Common Attributes

Abbrevation	Name	Description
Cn	commonName	Full name of the user.
company	company	Company or organization name
Gn	givenName	Firstname also called Christian name
homePhone	homeTelephoneNumber	Home Phone number
Mobile	mobileTelephoneNumber	Mobile or cellular phone number
O	organizationName	Organization name or even organizational name
Ou	organizationalUnitName	Usually department or any sub entity of larger entity
Pager	pagerTelephoneNumber	Pager telephone number
Sn	surname	Surname,last name or family name
-	telephoneNumber	Office phone number

3.2 Attributes on Ultrative Configured Page

3.2.1 LDAP Name Filter

Description: LDAP name filter is the search criteria for name look ups. The format of the search filter is compliant to

the standard string representations of LDAP search filters (RFC 2254). The name prefix for search entered by the user

is represented by the "%" symbol in the filter.

Valid Values: Standard LDAP filters e.g. (&(sn=%)(telephoneNumber=%s))

Default Value: <blank>

Examples:

℄ (&(telephoneNumber=%s)(sn=%))

Returns all LDAP records which have the "telephoneNumber" field set and the "sn" field starts with the entered prefix.

℄ (|(cn=%s)(sn=%s))

Returns all LDAP records which have the "cn" or "sn" field starting with the entered prefix.

℄ (!(cn=%s))

Returns all LDAP records which "do not" have the "cn" field starting with the entered prefix.

3.2.2 LDAP Number Filter

Description: LDAP number filter is the search criteria for number look ups. The format of the search filter is compliant to the standard string representations of LDAP search filters (RFC 2254). The number prefix for search entered by the user is represented by the "%" symbol in the filter.

Valid Values: Standard LDAP filters e.g.

(|(telephoneNumber=%s)(Mobile=%s)(ipPhone=%s))

Default Value: <blank>

Examples:

¢ (|(telephoneNumber=%s)(Mobile=%s)(ipPhone=%s))

Returns all LDAP records which have the "telephoneNumber" or "Mobile" or

"ipPhone"field starting with the entered prefix.

¢ (&(telephoneNumber=%s)(sn=*))

Returns all LDAP records which have the "sn" field set and the

"telephoneNumber" field starts with the entered prefix.

3.2.3 Server Address

Description: This setting refers to the DNS name or IP address of the LDAP server.

Default Value: 0.0.0.0

Example:

¢ 192.168.1.100

¢ ldap.company.com

3.2.4 Port

Description: This setting specifies the LDAP server port.

Default Value: 389

3.2.5 Base

Description: This setting specifies the LDAP search base (the distinguished name of the search base object) which corresponds to the location in the directory from which the LDAP search is requested to begin. The search base narrows the search scope and decreases directory lookup time. If you have multiple organizational units in your directory (for example, OU=Sales in O=COMPANY and OU=Development in O=COMPANY), but the "OU=Sales" organization never uses AOL AIM, you can restrict the lookup to the OU=Development subtree only by entering providing the following search base: OU=Development, O=COMPANY. Other examples see below.

www.ultrative.com/

Default Value: <blank>

Examples:

- ℓ   o=UNIVERSITY OF NEW ORLEANS,c=US
- ℓ   o=SFU,c=CA
- ℓ   dc=Ultrative,dc=cn

3.2.6   User Name

Description: This setting specifies the bind "Username" for LDAP servers. Most LDAP servers allow anonymous binds in which case the setting can be left blank. However if the LDAP server does not allow anonymous binds, you will need to provide the Username and Password allowed to query the LDAP server.

Default Value: <blank>

3.2.7   Password

Description: This setting specifies the bind "Password" for LDAP servers. Ultrative phones use "simple" authentication scheme for bind requests. This setting can be left blank in case the server allows anonymous binds. Otherwise you will need to provide the Password along with the Username in order to access the LDAP server.

Default Value: <blank>

3.2.8   Max.Hits(1~32000)

Description: This setting specifies the maximum number of search results to be returned by the LDAP server. If Max.hits is 0 or blank the LDAP server will return all search results. Please note that a very large value of the "Max. Hits" will slow down the LDAP lookup, therefore the setting should be configured according to the available bandwidth. The default value for this setting is blank.

Default Value: 50

3.2.9   LDAP Name Attributes

Description: This setting can be used to specify the "name" attributes of each record which are to be returned in the LDAP search results. This setting compresses the search results, as the server only returns the attributes which are requested by the Ultrative phone. The setting allows the user to configure multiple space separated name attributes. Please consult your system administrator regarding which name attributes are to be configured.

Valid Values: Space separated name attributes, see examples below.

Default Value: <blank>

Examples:

¢ cn sn displayName

Requires "cn", "sn" and "displayName" fields for each LDAP record.

¢ givenName

Requires "givenName" field for each LDAP record.

¢ vorName nachName

Requires "vorName" and "nachName" fields for each LDAP record.

3.2.10　LDAP Number Attributes

Description: This setting can be used to specify the "number" attributes of each record which are to be returned in the LDAP search results by the LDAP server. This setting compresses the search results, as the server only returns the attributes which are requested. The user can configure multiple space separated number attributes by using this setting. Please consult you system administrator regarding which number attributes are to be configured.

Valid Values: space separated number attributes e.g. telephoneNumber Mobile ipPhone Home

Default Value: <blank>

Examples:

¢ Mobile telephoneNumber ipPhone

Requires "Mobile", "telephoneNumber" and "ipPhone" fields for each LDAP record.

¢ Home Private Office

Requires "Home", "Private" and "Office" fields for each LDAP record.

3.2.11　Protocol

Description: Protocol is the protocol version for the phone when send the bind request to the server. Please make sure your LDAP server support version 3/2 bind request.

Valid Values: version 3/version 2

Default Value: version 3

3.2.12　Search Delay(ms)(0~2000)

Description: This setting is for configuring the delay display time after search.

Valid Values: 0~2000

Default Value: 0

3.2.13　LDAP Lookup for Incoming Call

Description: This setting can be used to enable calling line identification using LDAP. When the setting is turned

"Enable", the phone performs an LDAP number search for the incoming number and

displays the name of the calling party accordingly.

Valid Values: <Enabled>, <Disabled>

Default Value: Disabled

3.2.14   LDAP Sorting Results

Description: This setting is for sorting the search results, if make this option "Enabled", it will arrange in the   first alphabetical of the name order if return the name display; if only has the number return, it will list in numerical order. Valid Values: <Enabled>, <Disabled>

Default Value: Disabled

3.2.15   LDAP Lookup for PreDial/Dial

Description: This setting can be used to enable call out line identification using   LDAP. When the setting is turned

"Enabled", the phone performs an LDAP number search for PreDial or Dial status.

Valid Values: <Enabled>, <Disabled>

Default Value: Disabled

3.3   Example for Configuration

You can use the below settings as a starting point and adjust the filter and display attributes according to your needs.

LDAP Name Filter: (&(telephoneNumber=%s)(sn=%))

LDAP Number Filter: (&(telephoneNumber=%s)(sn=*))

Server Address: 192.168.200.254   #####this setting is relate with the server configuration.

Port: 389   #####this setting is relate with the server configuration.

Base: dc=Ultrative,dc=cn   #####this setting is relate with the server configuration.

User Name: cn=manager,dc=Ultrative,dc=cn   #####this setting is relate with the server

configuration.

Password: *****   #####this setting is relate with the server configuration.

Max.Hits: 50

LDAP Name Attributes: cn sn displayName

LDAP Number Attributes: Mobile telephoneNumber ipPhone

Protocol: Version 3   #####this setting is relate with the server configuration.

Search Delay(ms)(0~2000): 0

LDAP Lookup for Incoming Call: Enabled

LDAP Sorting Results: Enabled

LDAP Lookup for PreDial/Dial: Enabled

# 4. Configuration on Ultrative Phone

5. LDAP Server Installation

5.1 Install OpenLDAP Server on Windows 2003 System

Install "openldap-2.2.29-db-4.3.29-openssl-0.9.8a-win32_Setup.exe" according to default prompt,please remember the install path for next steps.
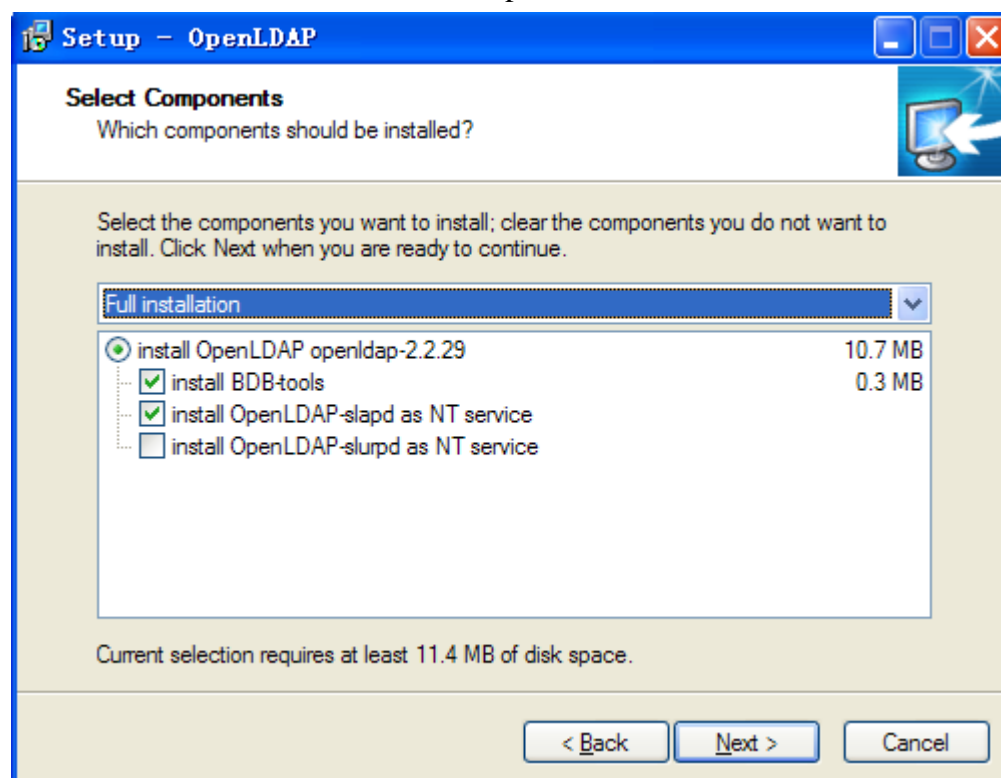
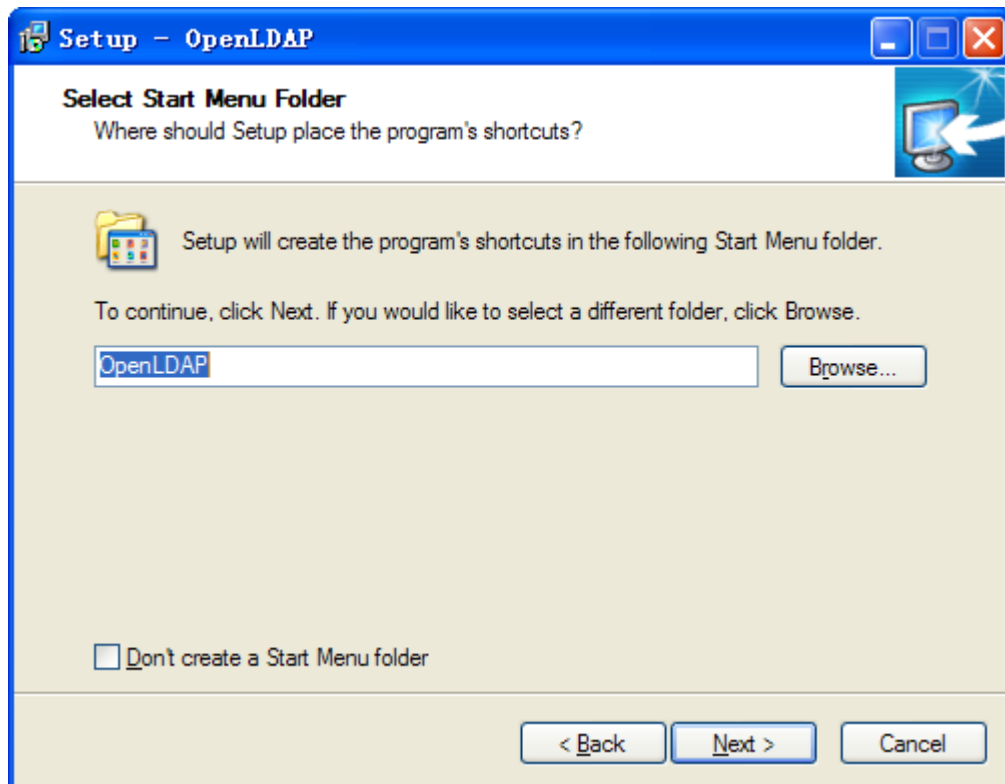1. Double click the install program to run the installation.

Ultrative Communication Co.,Ltd
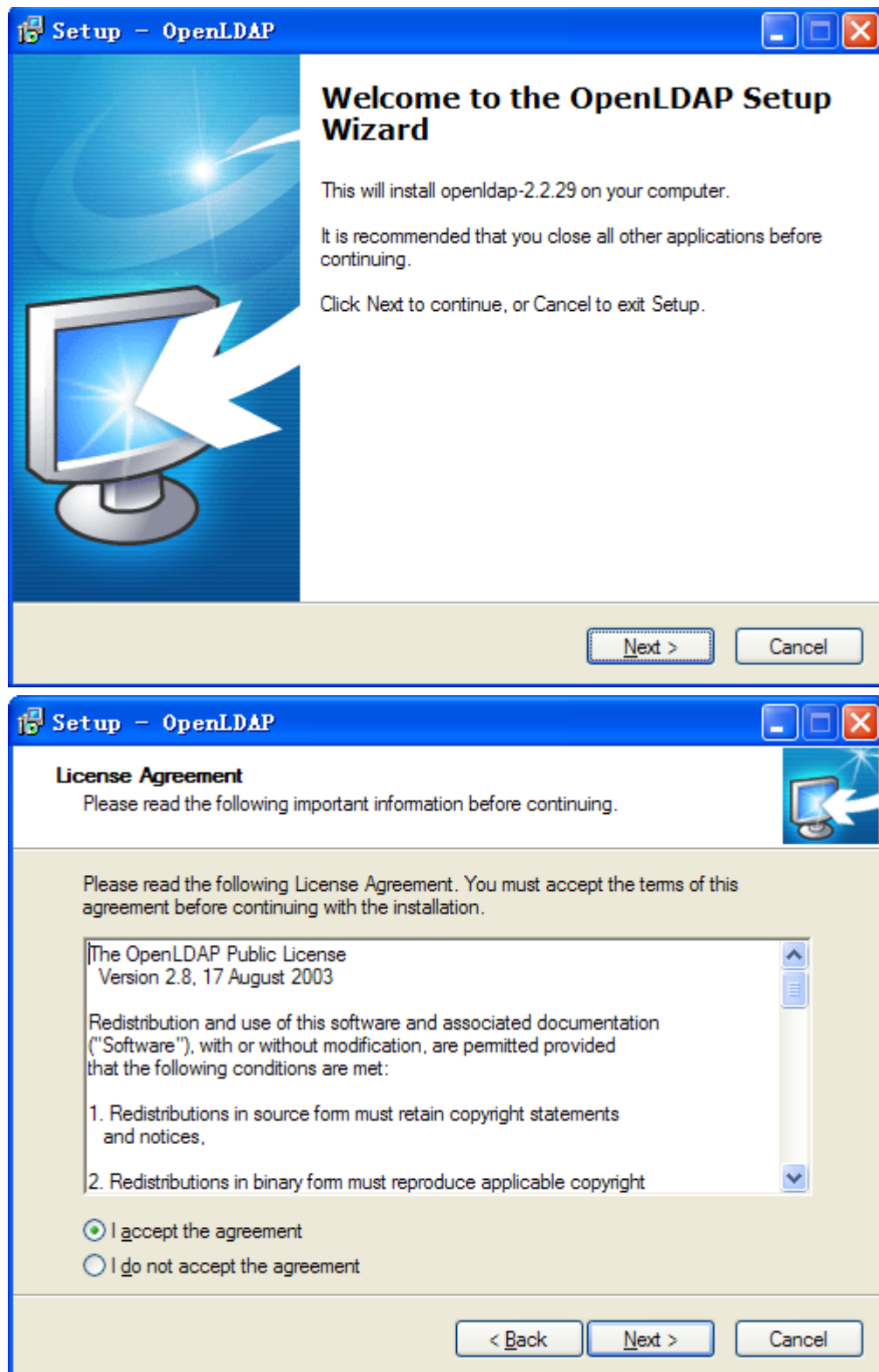
2. Please remember the install path. E.g. C:\Program Files\OpenLDAP.
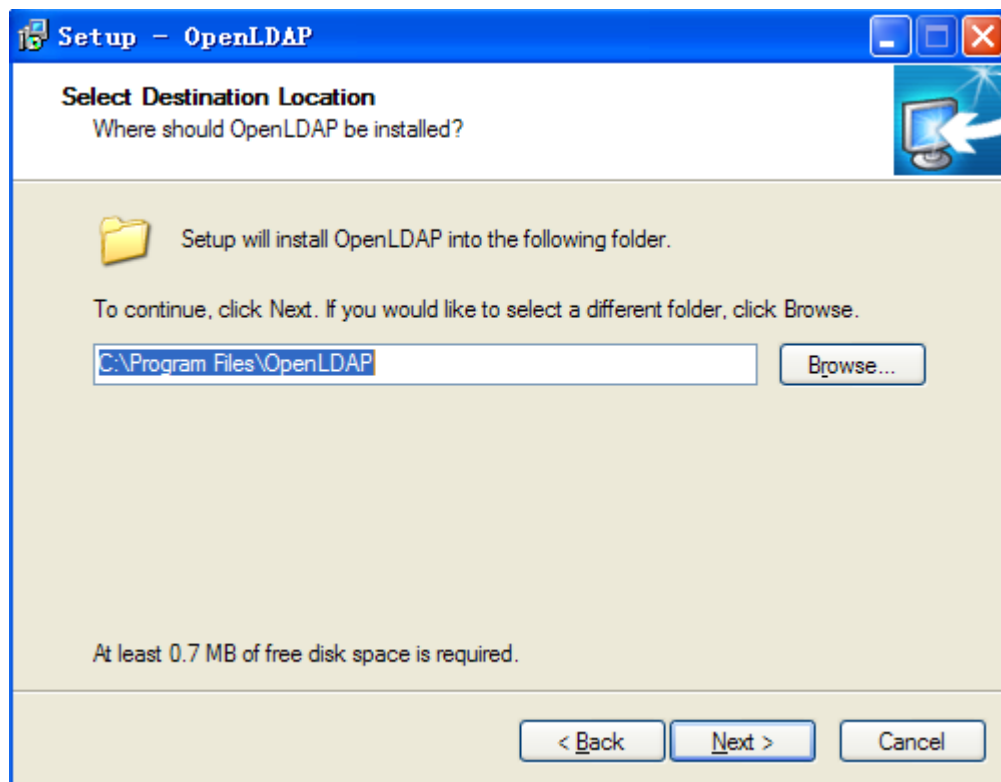
3. Choose the [Full installation] mode as picture.

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5.2 Configure OpenLDAP Server

5.2.1 Configure slapd.conf file
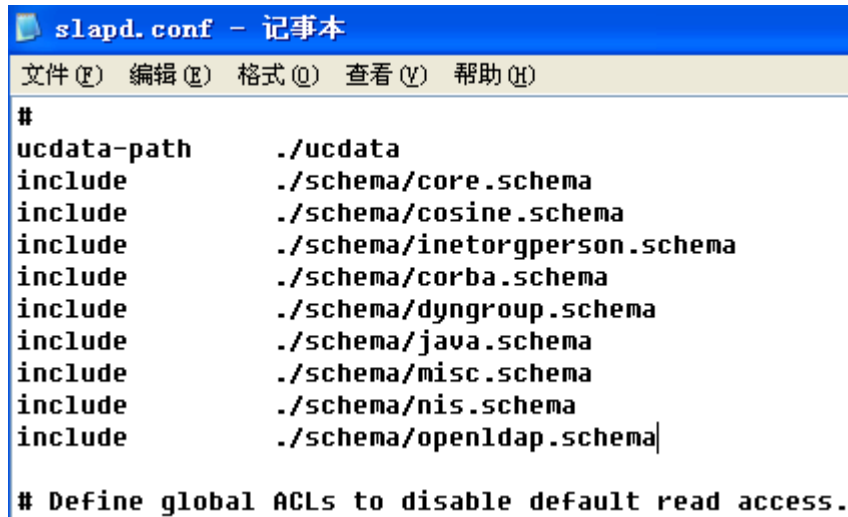
1. Add "schema" in slapd.conf file

Access to the install path (for example,C:\Program Files\OpenLDAP),open the file names slapd.conf,find the command

include   ./schema/core.schema

Add the other commands like:

include   ./schema/cosine.schema
include   ./schema/inetorgperson.schema
include   ./schema/corba.schema
include   ./schema/dyngroup.schema
include   ./schema/java.schema
include   ./schema/misc.schema
include   ./schema/nis.schema
include   ./schema/openldap.schema

2. Modify the LDAP directory node

Access to the install path,open the file names slapd.conf,find the command

suffix   "dc=my-domain,dc=com"
rootdn   "cn=Manager,dc=my-domain,dc=com"

Please modify these two commands to following commands (please do not have any space during the quotation marks ""):

suffix   "dc=Ultrative,dc=cn"
rootdn   "cn=Manager,dc=Ultrative,dc=cn"

3. Modify the LDAP password

Access to the install path,open the file names slapd.conf,find the command

rootpw   secret
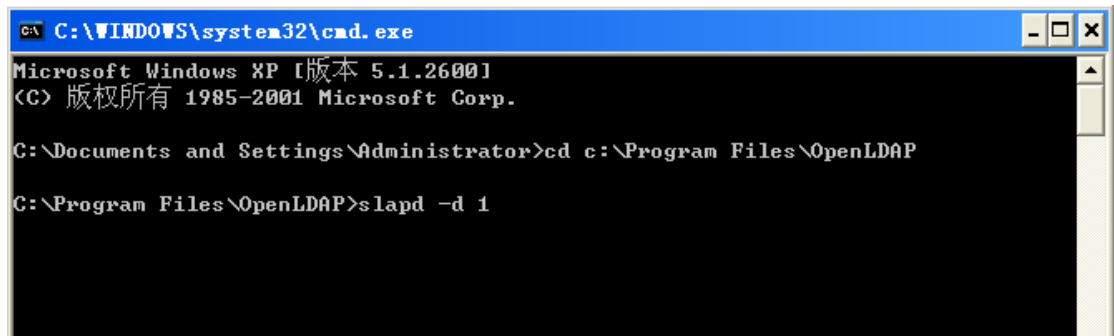
Please modify it to the password you want to set.

rootpw   Ultrative

5.2.2   Run slapd server

Cmd to OpenLDAP's install path,for example,"cd c:\Program Files\OpenLDAP" , then run the command "slapd –d 1"

If run the server successfully,you can find the command of "slapd starting"

NOTE:

Please do not close this window to make sure the LDAP Server keep running.

5.2.3   Add contact

Create a plain text named "Ultrative.ldif" in install path.
Then put the content like following:

```
dn:                    dc=Ultrative,dc=cn
objectClass:           dcObject
objectClass:            organization
dc:                    Ultrative
o:                     Ultrative Organization


dn:                    cn=Manager,dc=Ultrative,dc=cn
objectClass:            organizationalRole
cn:                    Manager
description:           Ultrative Address Book Administrator
```

Cmd to execute command "ldapadd -xv –D "cn=Manager,dc=Ultrative,dc=cn" –W –f Ultrative.ldif".
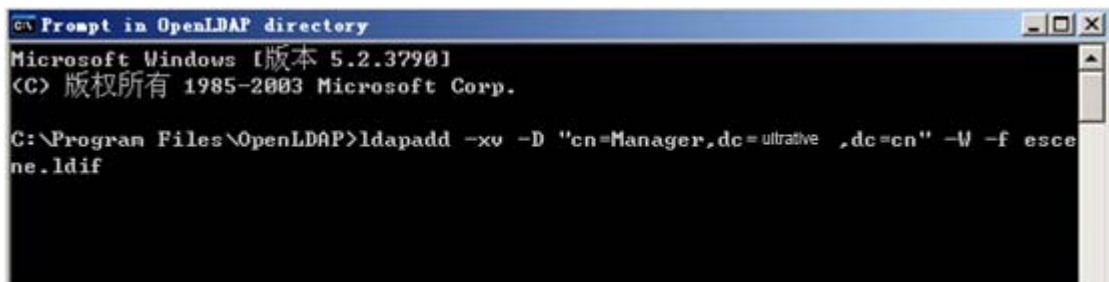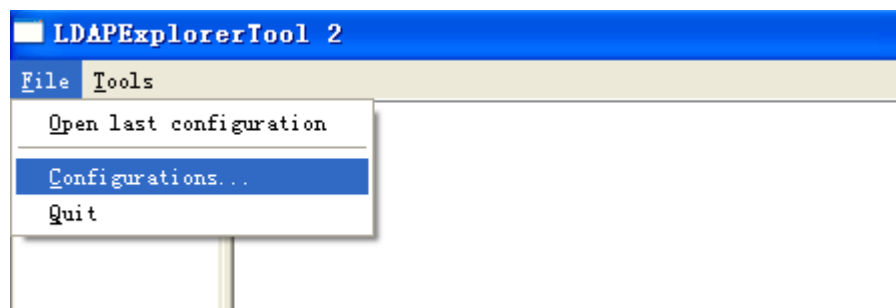
Input the password you set,here is Ultrative.

6. Install LDAP Client tool in Windows System
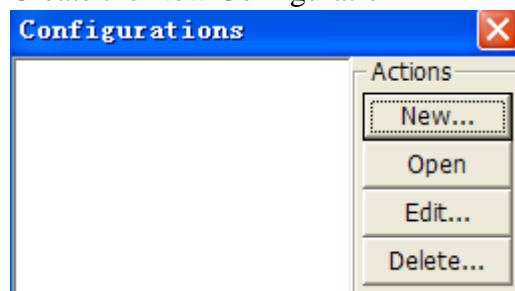
6.1 Install LDAPExploreTool2
Install the LDAPExploreTool2 according to the prompt.

6.2 Create the Configurations in LDAPExploreTool2
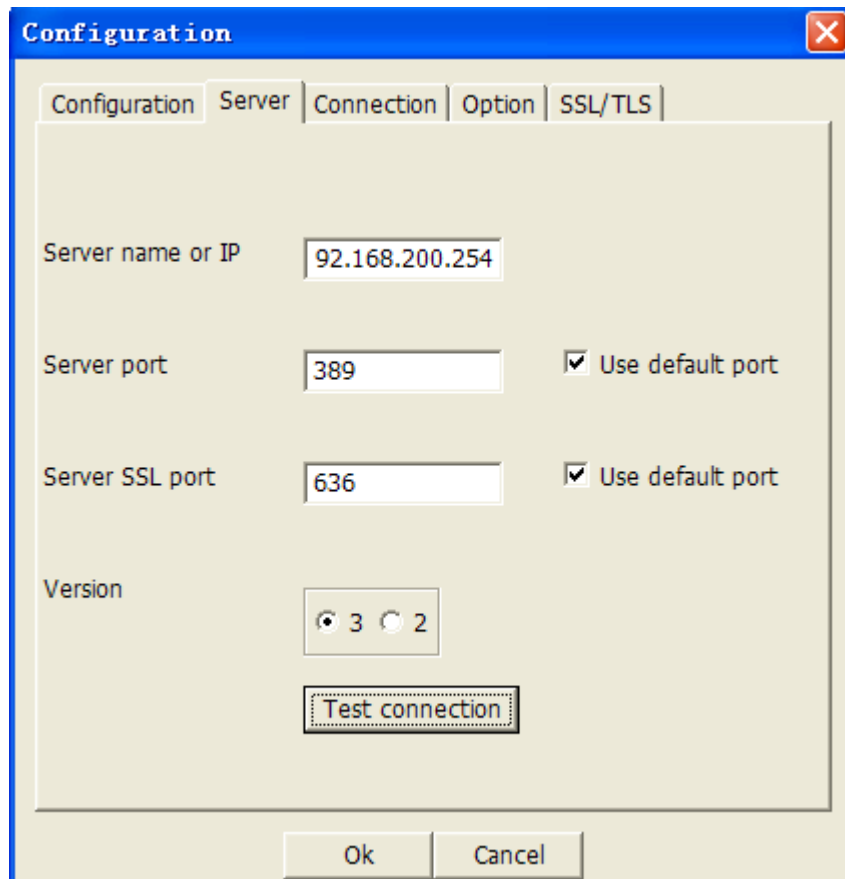1. Run the LDAPExploreTool2,access to File→Configurations.
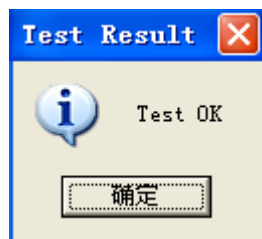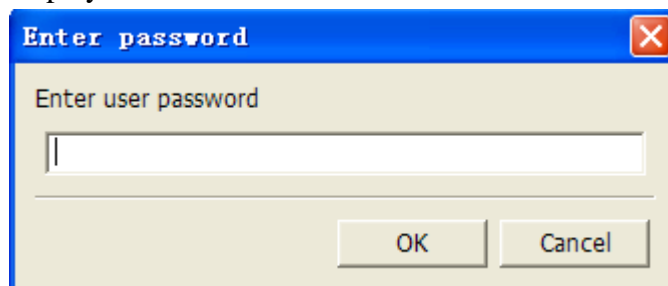

2. Create the New Configuration

a. Fill in a name in Configuration option

b. Input the server address on Server option.

c. Press Test connection,the password is blank(no password),press ok,will display Test OK.

NOTE:

Server name or IP\Server port\Version settings are relate with the settings on Ultrative phone.

d. Configure the "cn=Manager,dc=Ultrative,dc=cn" on User DN,and tick the Store password for protect your settings,enter the password which you configure on the server.

The Base DN will auto-configure if you press the [Guess value].

After the settings above,you can press [Test connection] to test your settings,if it prompt warning message,please re-try the steps above again,we can continue the next steps if the test is passed.
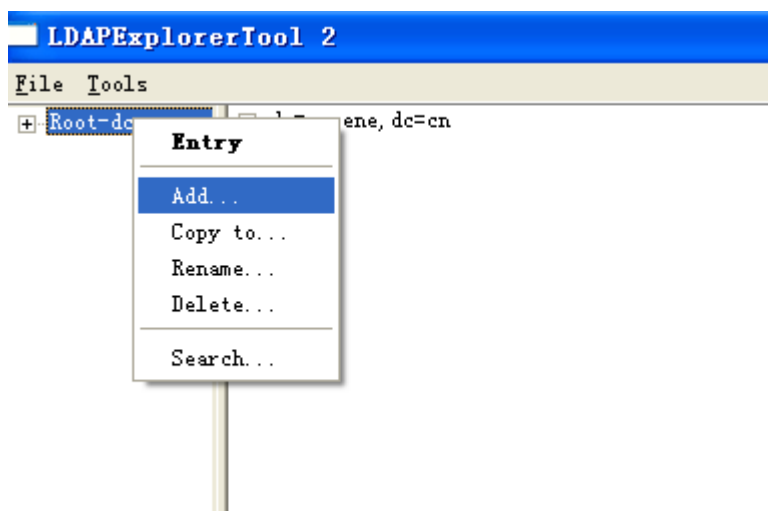

3. Choose the Action[LDAP],then press [Open] achieve the settings.
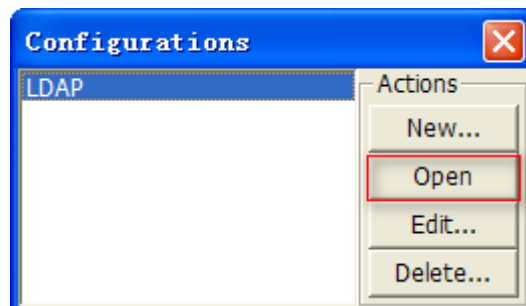
Then you can get the page like following picture. Please right click the action to add the contacts.

6.3 Add the Entry

1.Please right click the action to add the contacts.

2.Create new entry.
    Parent DN: This setting will automatic generation according the Configuration

setting.

    Entry RDN: The format is cn=XXX

    Object Class(from schema): Select the structure class which entry belongs to, each structure class has its own must attributes and may attributes. We select [Person] for example here.

    Must attributes: Double click attribute to add them to the entry node. If need multi-cn, can be allow to repeat added.

    May attributes: Double click attribute to add them to the entry node. If need multi-Telphonenumber, can be allow to repeat added.

Please notice the note label on the picture above.

After save the settings, you can find the new added entry at the left of the LDAP catalogue.
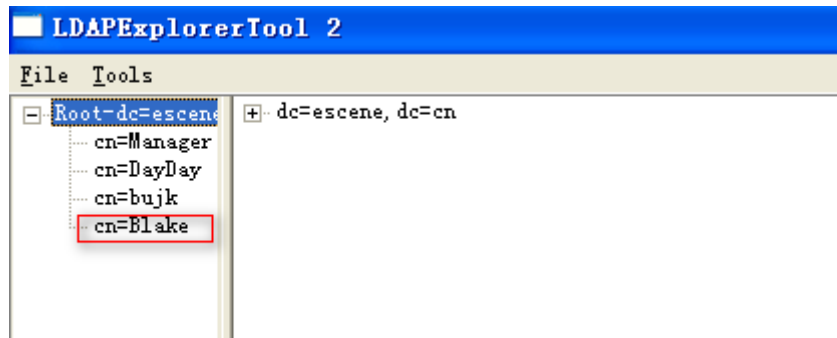
3.You can add more contact entries by these steps.